The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

AUGUST 20 1960

N EXEMPT FROM P.T.

the tranquilliser pure and simple . . .

elleril was superior to all other phenothiazines in its ability to bring about clinical improvement rid and overactive schizophrenics with the minimum of side-effects . . ."

J. ment. Sci. (1960) **106**, 732.

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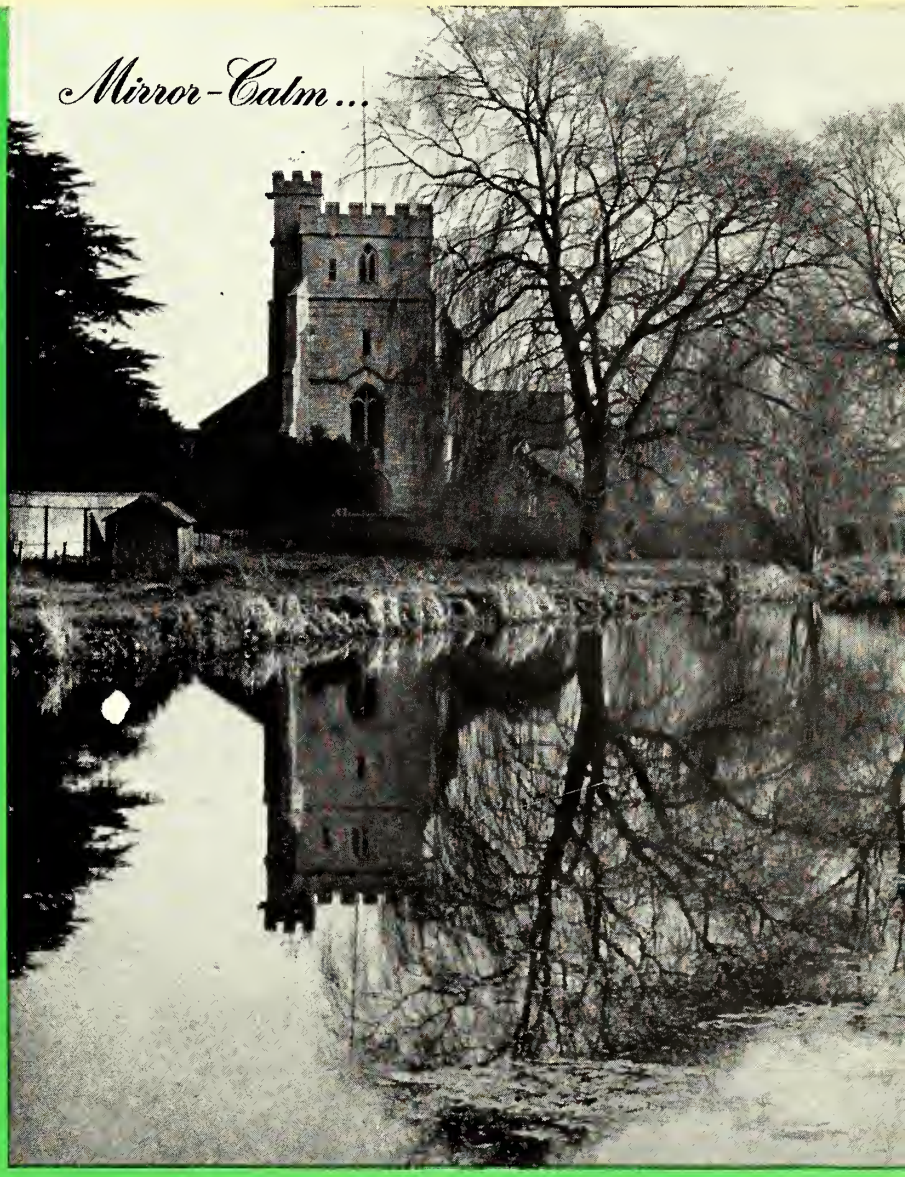
Bottles of 50 and 250 tablets



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30/- profit for 50/- outlay

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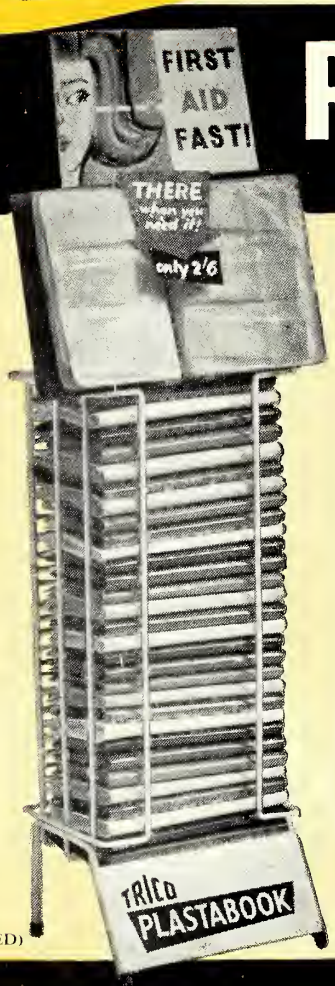

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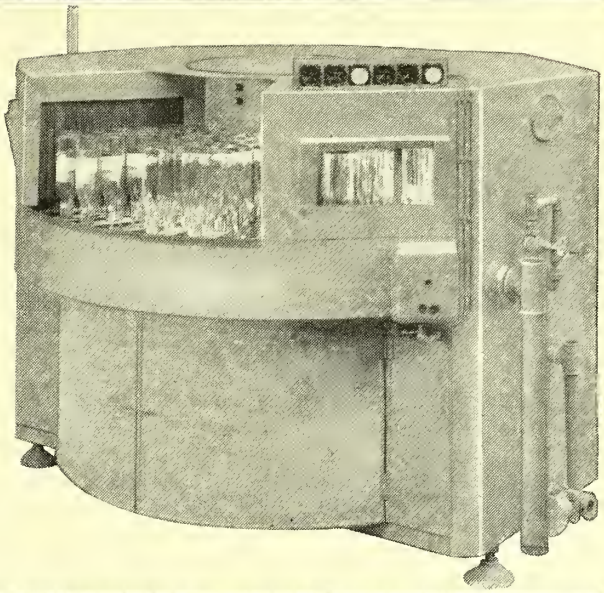
YOU CAN HAVE IT BOTH WAYS

Yes with the Powley 'Apex Major' you enjoy the benefits of both a small initial outlay and low running costs. This larger version of the well-known 'Apex' rotary hydro bottle washing machine incorporates a prolonged multi-stage and multi-temperature jetting treatment equivalent to many large straight-through machines and yet it occupies only a fraction of the floor space. The 'Apex Major' handles all shapes and sizes of bottles with or without labels and provides, in the one machine, two outputs 1,440 and 2,400 bottles per hour. Write for further details to the address below.



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TWO OUTPUTS IN ONE MACHINE 1,440 and 2,400 bottles per hour

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'VERTEX' ROTARY HYDRO—	Up to 720 bottles per hour.
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TRADE MARK

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Price 23/- per doz. bottles, plus tax.
Retail 3/10 per bottle

The effect lasts through 6 to 8 shampoos.

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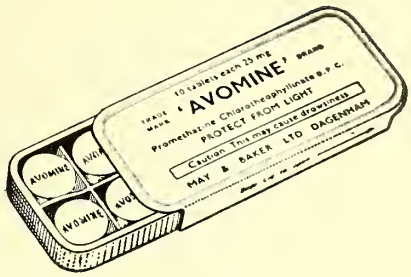
Republic of Ireland enquiries to, Lilmar Pharmaceuticals Limited, Santry, Dublin.

* Now OFF prescription!



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PROMETHAZINE CHLOROTHEOPHYLLINATE B.P.C.

FOR TRAVEL SICKNESS

Widely prescribed by the medical profession since its introduction, some ten years ago, 'Avomine' has been freed by the recent amendment to the Poisons Regulations for counter sale for travel sickness. (P.I., S.VII.). It is recommended as a safe and effective product for the prevention and treatment of all forms of motion sickness.

Slide containers of 10 tablets retail at 2s.3d.

Exempt from purchase tax.

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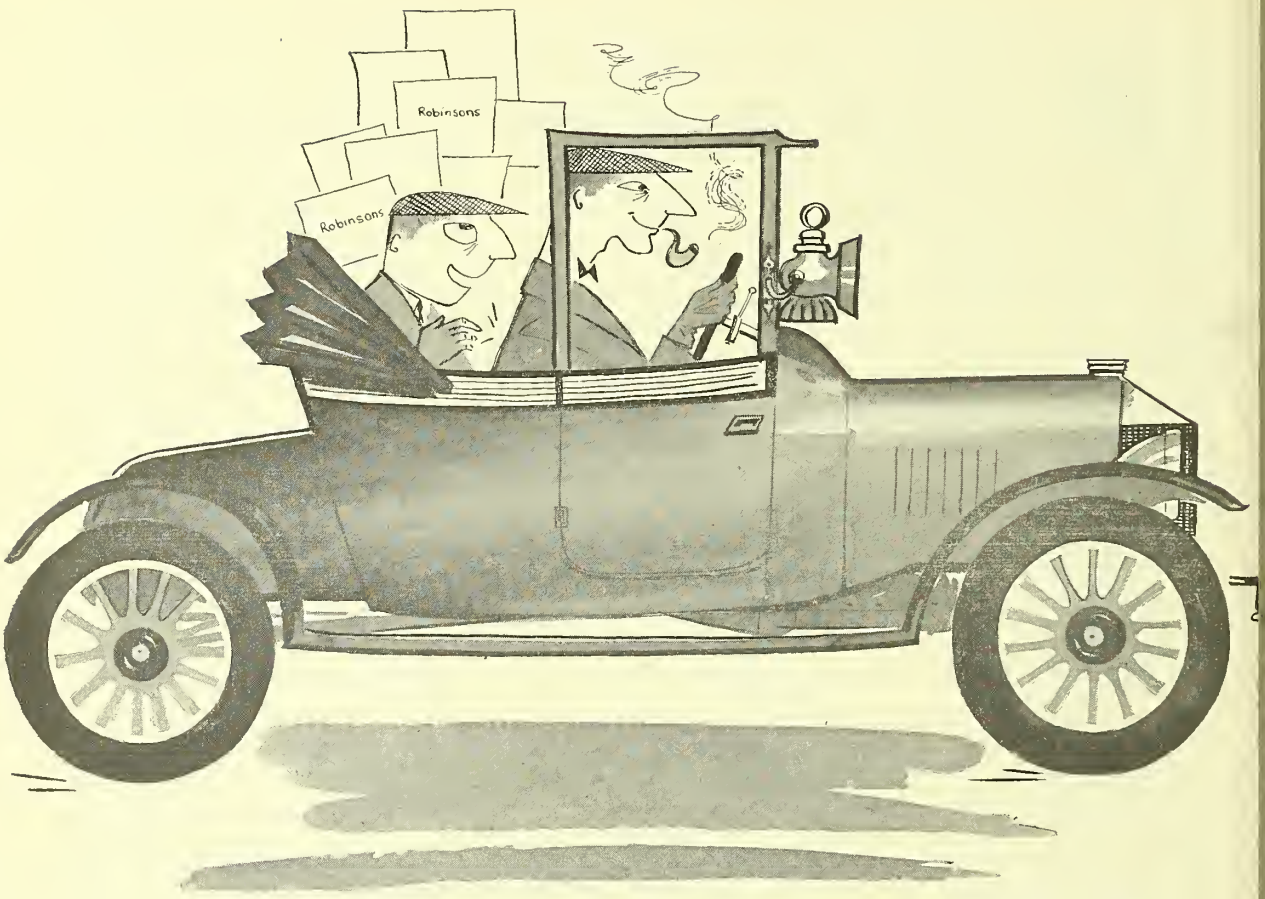

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"Rather! They make boxes for the Chemist."

"*What are you talking about—I said M.I.*"

"Sorry, thought you said Robinson."

"*What if I did?*"

"Well, slow this thing down to 5 miles an hour and then you'll hear me. Every dispensing Chemist knows that somewhere in the Robinson range of standard round boxes is the very container he has been looking for. Made specially for the product too—ointment or powders, crystals or pills, special containers for ampoules, thermometers and—here, wait a minute, you're clocking 20 again."

Specify Robinsons Boxes from your Wholesaler.

Robinsons *of Chesterfield*

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hair beauty PREPARATIONS sell on sight!

Spraying HAIR Lacquer

Retails at 3/6

The finest of hair lacquers with a delightful perfume available in the new Super Spray 2½ oz. polythene bottle (various colours) in attractive individually packed cartons, and boxed in 1 doz. units in eye-catching display outers. Refill sachets also available packed in 2 doz. outers retail at 2/3.

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CREAM SHAMPOO Retails at 3/9

24 shampoos in plastic injector dispenser—Hair and scalp always kept at its best with this high-foaming soapless cream shampoo made from the natural benefits of shell eggs and juice of fresh lemons. Trial—3 shampoos, tubes 9d.; 3 individual shampoos linked together 10½d. all packed in well-designed display outers.

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Retails at 3/3

An alleviating scalp lotion for use after shampooing and before setting. Allays scurf irritation; quick drying action holds the hair, removes tangles, leaves hair free from all deposits and with a beautiful lustre.

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Pride Brilliant Glitters—six colours, Retails at 2/3d.
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Pride Beer Shampoo, Retails at 7d.
Pride Champagne Shampoo, Retails at 7d.
Pride Medicated, Retails at 7d.
Bubble Bath, Retails at 7½d.

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These Fast-Selling lines are being advertised continuously in National magazines.

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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 174 August 20, 1960 No. 4201

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ROTER

has particular advantages

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ROTER achieves a high cure rate and often gives effective control of even refractory chronic cases which have resisted other treatments.

ROTER in many cases obviates the need for hospitalization or surgical intervention.

ROTER helps patients to keep ambulant and symptom-free with a minimum of medication and with few, if any, dietary restrictions.

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ROTER has no known side effects.

ROTER requires no supplementary medication such as sedatives or anti-spasmodics.

ROTER shows a saving in cost when compared with conventional methods of treatment.

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FORMULA

Each Roter tablet contains:

Magnesium Carbonate (400 mg.). Bismuth Subnitrate Roter (350 mg.). Sodium Bicarbonate (200 mg.) and Cortex Rhamni Frangulae (25 mg.).

PACKINGS OF ROTER TABLETS

Retail Prices including P.T., Trial size 40 tablets 6/10d., Standard size 120 tablets 19/4d.
Dispensing packs 360 and 720 tablets, P.T. exempt.
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The CHEMIST AND DRUGGIST

Volume 174 AUGUST 20, 1960 No. 4201

British Approved Names

SUPPLEMENTARY LIST ISSUED

THE following supplementary list of approved names has been issued by the British Pharmacopœia Commission.

Approved Name	Other Names
Allyloestrenol	17α-Allyloestr-4-en-17β-ol Gestanin.
Allylprodine	3-Allyl-1-methyl-4-phenyl-4-propionyl-oxypiperidine.
Chlorphenoxamine	1-*p*-Chlorophenyl-1-phenylethyl 2-dimethylaminoethyl ether. Clorevan is the hydrochloride.
Cyclopentamine	2-Methylamino-1-*cyclo*pentylpropane. Clopane is the hydrochloride.
Dimethylchlortetracycline	7-Chloro-4-dimethylamino-1:4*a*:5:5*a*:6:11:12*a*-octahydro-3:6:10:12:12*a*-pentahydroxy-1:11-dioxonaphthacene-2-carboxyamide. Declomycin.
Isocarboxazid	3-*N*-Benzylhydrazinocarbonyl-5-methyl-*iso*oxazole. Marplan.
Levophenacylmorphan	(−)-3-Hydroxy-*N*-phenacylmorphinan.
Metazocine	1:2:3:4:5:6-Hexahydro-8-hydroxy-3:6:11-trimethyl-2:6-methano-3-benzazocine.
Norlevorphanol	(−)-3-Hydroxymorphinan.
Phencyclidine	1-(1-Phenyl*cyclo*hexyl) piperidine. Sernyl is the hydrochloride.
Pheniprazine	α-Methylphenethylhydrazine. Cavodil is the hydrochloride.
Pheniramine	3-Dimethylamino-1-phenyl-1-2′-pyridylpropane. Trimeton is the maleate; Daneral is the *p*-aminosalicylate.
Piminodine	Ethyl 1-phenyl-4-(3-phenylaminopropyl)-piperidine-4-carboxylate.
Proheptazine	1:3-Dimethyl-4-phenyl-4-propionyloxy-aza*cyclo*heptane.
Pyrrobutamine	1-(4-*p*-Chlorophenyl-3-phenylbut-2-enyl)-pyrrolidine. Pyronil is the phosphate.
Sodium anoxynaphthonate	Sodium 4′-anilino-8-hydroxy-1:1′-azonaphthalene-3:6:5′-trisulphonate Coomassie blue.
Tetrabenazine	3-*iso*Butyl-1:2:3:4:6:7-hexahydro-9:10-dimethoxybenzo[a]quinolizin-2-one. Nitoman.
Triparanol	2-*p*-Chlorophenyl-1-(*p*-diethylamino-ethoxyphenyl)-1-*p*-tolylethanol. MER-29.

*Narcotic substances which come within International Conventions and are not available as therapeutic agents.

Essay Competition

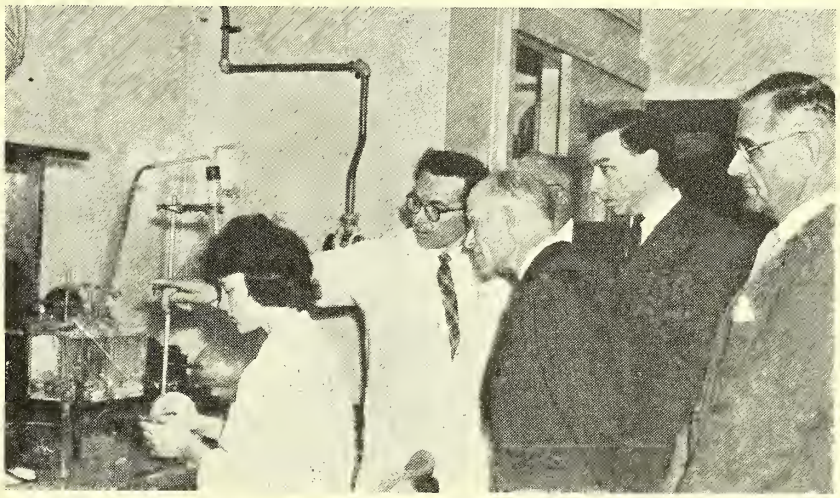
SOCIETY OF APOTHECARIES' PRIZE

THROUGH the generosity of the Maccabæans, the Faculty of the History of Medicine and Pharmacy of the Worshipful Society of Apothecaries is able to offer an annual prize of not less than £26 5s., with a bronze medal, for the best original essay on a subject connected with the history of medicine or pharmacy written by an undergraduate or graduate under the age of thirty. The first annual prize is being awarded for an historical essay of not more than 5,000 words on one of the following: "The Relations Between Botany and Medicine"; "The Relations Between Chemistry and Medicine"; "The Relations Between Physics and Medicine." The essay may contain original sketches or photographic illustrations and should preferably be typewritten on quarto paper, but that is not a condition of entry. On a separate sheet attached to the essay should be written the candidate's name, date of birth, and the name of his or her university, college, medical school, or school of pharmacy. None of those particulars should be written anywhere on the pages of the essay itself. Those who wish to compete must be under the age of thirty on March 15, 1961, and should send their names, before September 15, to Dr. F. N. L. Poynter, Honorary Secretary, Wellcome Historical Medical Library, 183 Euston Road, London, N.W.1. The last date for the receipt of completed essays is March 15, 1961. The prize is to be awarded at the second annual students' lecture in the Apothecaries' Hall in June 1961.

Research for Industry

WORK DONE DURING 1959

THERE is cumulative evidence that British industry is taking a growing interest in research, states the report, "Research for Industry, 1959," of the Industrial Grants Committee of the Department for Scientific and Industrial Research (H.M. Stationery Office, price 8s.). Expenditure on "civil" research and development is estimated to have at least doubled between 1955 and 1958, and only about 15 per cent. of that increase could be attributed to the general rise of wages, salaries and prices.



"PURE" CHEMISTS AT PHARMACEUTICAL LABORATORY: One of the laboratories at the plant of Parke, Davis & Co., Ltd., Hounslow, Middlesex, proved to be a major item of interest for members of the London section, Royal Institute of Chemistry, during a recent visit. In the photograph are Messrs. W. J. Abbott (John Bell, Hills & Lucas, Ltd.), A. N. Tipper and G. E. Scharff, and Dr. J. Bondi.

Grant - aided research associations played their part in the trend. Their total income from industry and government rose from £5·1 millions in 1955 to £6·9 millions in 1958 and £7·3 millions in 1959. The report includes a special feature surveying recent progress in the research on instrumentation for industry in which it is anticipated that instruments such as the gas chromatograph, the nuclear mass resonance spectrometer and the microwave spectrometer will soon be accepted as general industrial equipment rather than merely laboratory instruments. The report also contains a short reference to the Commonwealth Mycological Institute, Kew, Surrey, where the Culture Collection collects, maintains and distributes cultures of fungi of commercial interest. About 800 cultures a year are sent to firms and industrial research associations and are used for organic synthesis and assay. Among the problems investigated during 1959 was the clogging of filters in the water-cooling system of an electrical firm by moulds growing in circulating water: their growth was controlled by the use of thymol. Another problem concerned the growth of colonies of *Penicillium spinulosum* in pure N/10 sulphuric acid prepared as an analytical reagent by a pharmaceutical company; the growth was prevented by a rearrangement of the factory routine.

Wanted a Pharmacist

MILLWALL'S PLIGHT UNDER REVIEW

THREE doctors' surgeries; a population of 11,000; yet only one pharmacy. That is the situation in the Isle of Dogs following the closing of a branch of a multiple company in the area. It is a situation that is causing anxiety to the London Executive Council and hardship to many of the 11,000 people who live in the area. The district, not strictly an island, is in the shape of a letter U, and is bounded on the West, South and East sides by the River Thames. It contains the Millwall and West India Docks, but to the North is almost entirely cut off from the rest of Poplar by docks and railway lines. The population is mainly concentrated in three districts, Millwall on the Western arm of the U, Cubitt Town in the South-eastern sector and the East Ferry Road district on the Eastern arm of the U, which is also in Cubitt Town. By 1963 it is estimated there will be an increase of 2,000 in the population. The one remaining pharmacy is open for standard hours but there are no late dispensing facilities. Millwall residents are particularly hard hit, and their complaints started even before the closing of the multiple. The Executive Council's hours-of-service committee considers that the area offers a good opportunity for a young pharmacist anxious to build up a business.

Evening Courses

PHARMACY LECTURES AT CHELSEA

IN the Autumn term of the present session the School of Pharmacy, Chelsea College of Science and Technology, Manresa Road, London, S.W.3, is holding two courses of lectures in the School's pharmacy extension series. The courses are on "The Economics of Pharmacy in Britain" and "Recent Advances in Medicinal Chemistry." Both series are at 7.15 p.m. on Tuesday evenings commencing on October 11. The course of lectures on the economics of pharmacy (for which the fee is £1 5s.) includes considerations involved in opening a new pharmacy, planning and design of a pharmacy, staffing, the effects of the National Health Service, and an appraisal of the pharmaceutical wholesale trade. For that course, knowledge of retail practice is assumed. Among subjects to be covered in the medicinal chemistry course (fee £1) are neuromuscular blocking agents, arylthioureas, enzymes (distribution within cells), psychotropic drugs, penicillins, diuretics, and carcinotherapy.

Botanical "Patents"

BREEDERS' RIGHTS SUGGESTION

THAT the breeder or discoverer of a distinct variety of plant should be eligible to exclusive personal rights in that variety is a recommendation in the Report of the Committee on transactions in Seeds (H.M. Stationery Office, price 6s.). The committee considers that rights granted should be similar in principle to those accorded under patents to inventors, but within a new system specially devised to embrace agricultural and horticultural conditions.

IRISH NEWS

THE NORTH

Health Board

A RECOUPMENT CLAIM SUCCEEDS

IT was reported at a meeting of the Northern Ireland General Health Services Board, held in Belfast on July 27, that when the Board went into committee at the previous meeting a claim for recoupment had been heard. The secretary had explained that the claim arose through the loss by a patient's young daughter of a prescription form when she had been on the way to the chemist. The patient had submitted a private prescription and the chemist's receipt for £5 0s. 11d. with a request for recoupment. A check had been made of the forms from the chemist and another in the near vicinity but the lost prescription had not been sent The Board had passed the claim. T finance and general purposes commit reported that the pharmaceuti officer was ill in hospital and that had been arranged that Mr. S. Foster (senior administration offic medical branch) should, meanwh take charge of the drug pricing bure The committee had expressed its go wishes for the speedy recovery of pharmaceutical officer. The secret had submitted to the pharmaceuti services committee a letter dated J 5 from a Local Pharmaceutical Co mittee in which it was suggested th following the closure of a shop July 2, the one rota period for shop, due in September, should reallocated to another shop. T would obviate the need for adjust all rota cards before the end of year. The committee had agre Accounts totalling £216,934 for ph maceutical services were passed payment. It was reported that appro had been given by the Ministry proposed alterations to the drug test scheme.

OVERSEAS NEWS

SOUTH AFRICA

A Feeler Towards Aspirin Cont

PHARMACISTS in South Africa are poi ing out that the indiscriminate distrib tion of aspirin and similar preparatic free for advertising purposes could harmful. Aspirin may be distribut without control in South Africa, as does not fall under the conditions the law governing the distribution medicines. A member of the Ca Western Province branch of the Ph maceutical Society of South Africa s that, during 1957 and 1958, about fif three people died in South Africa fr aspirin poisoning. In England in 19 and 1954 it was found that 50 per ce of the cases of internal hæmorrha treated in hospitals were caused overdoses of aspirin.

UNITED STATES

Labelling Proposals

THE Food and Drugs Administrati has proposed that ethical produ issued by a manufacturer to pharm cists and doctors should contain ref ences to all the side effects that mi

PHARMACIST INTO DOCTOR: A group taken after the conferring at University College, Dublin, recently of a degree in medicine upon Dr. Francis J. Timoney, Ph.C. Dr. Timoney, who is a brother of Dr. Richard F. Timoney (dean of the College of Pharmacy, Dublin) comes of a pharmaceutical family. Youngest son of Mr. Francis T. Timoney, M.P.S.I., he spent eight years after qualifying in November 1947 in his father's pharmacy in Capel Street, Dublin, before deciding to take up the study of medicine. In the group are (from left), Richard F. Timoney, Mrs. Brian Timoney, Mr. Francis T. Timoney (father), Dr. Francis J. Timon Mrs. F. T. Timoney (mother) and Dr. Brian Timoney (brother).

se when using the drug, together th details of any other known zards, and the precautions that ould be taken. The information uld not have to be included in the ckage given to the patient. The lministration considers that such a le would go a long way towards unteracting extravagant claims conning new products. The American armaceutical industry has about two onths in which to comment on the oposed measures. The Administraon also seeks authority to prohibit les of a new drug until the statement out purity and manufacturing conls, submitted with the maker's plication, has been verified. At pres- t the F.D.A. has to approve the drug the information submitted is equate. Instances of inability to nfirm the information that had been bmitted have been reported.

USTRALIA

merica Penetrates Drug Market

RUG Houses of Australia, Ltd., is olding further discussions on the posbility of forming a joint company ith Cyanamid International. D.H.A., td., already has a link with Cyanamid rough its subsidiary, Lederle Laboraries, Ltd. Two mergers in the pharaceutical field have been completed Sydney. Johnson & Johnson, td., has acquired a controlling interest Andrew's Laboratories, Proprietary, td., to provide an organisation for e distribution of McNeil pharmauticals. The second merger was etween Mead Johnson, of Indiana, nd Charles McDonald, Proprietary, td., Sydney.

EWS IN BRIEF

THE British Pharmaceutical Codex, 959, becomes official in India on eptember 1.

THE First International Congress of ood Science and Technology is being eld in London, September 18–21, 1962.

PHARMACEUTICAL products launched the American drug industry in 1960 e expected to total 700, against 564 1959. The estimate is that of the iblisher of the Pharmindex service.

THE European Free Trade Associaon (Origin of Goods) (Amendment o. 2) Regulations, 1960 (H.M. Staonery Office, price fourpence) adds neutral potassium carbonate, anhyous" to the goods listed in the Third hedule of the original regulations.

APPROVAL has been given under the ilk and Dairies (General) Regulaons, 1959, for the use of the followg products as chemical agents in the eansing of dairy equipment:—Manuex hypochlorite, Manus (Great itain), Ltd., Moreton-in-Marsh, loucestershire; Secosan and Rinsan, th issued by Gascoigne-Crowther, d., Lactosan Laboratories, Caveram, Reading, Berkshire.

PORT

Golf.—MANCHESTER PHARMACEUTICAL GOLFING CIETY, Mere golf club, on August 10. *Woolley phy*, 1, J. W. Kemp; 2, R. Berry. Ladies'-day zes: *Non-golfers' Prize*, Mrs. R. Berry; *lfers' Prize*, Mrs. C. Beevers; *Booby Prize*, . T. Gee.

TOPICAL REFLECTIONS

By Xrayser

A Big Problem

At the meeting of the Council of the Phamaceutical Society held at the end of July, Mr. Maplethorpe expressed concern (p. 192) over the premature marketing of some of the new medicinal substances. His concern is shared by many connected with the healing arts, both individually and through their organisations. That substances whose full potentialities are in question by reason of inadquate clinical trial should find their way so easily into the materia medica is indicative of a lack of proper control. It may be true that, traditionally, ours is a country dedicated to freedom and intolerant of conditions under which enterprise is circumscribed. It may also be, as is frequently averred, that the absence of such freedom would have made impossible the many discoveries in medicine which have proved of such value to human life and suffering. Those opposed to control point out that, under what they usually refer to as "the dead hand of bureaucracy," progress would have been impossible. I am prepared to concede the justice of much of the argument, but some form of control, voluntary or official, might be found to be necessary. Unbridled competition, with commercial incentive as the driving force, has led to just such a situation as that which disturbs Mr. Maplethorpe, the Ministry of Health, the Royal College and the Medical Research Council. Fundamentally, the menace may be found to have economic roots. Adequate control need not upset those whose reputation has been built on the foundation of a proper appreciation of their responsibility, and whose self-imposed controls would be found to satisfy the most stringent requirements. The danger is that economic pressure may make it difficult to resist the temptation to "streamline" and so reduce the high standards. Those whose reputation stands high deserve protection whatever means is finally adopted.

A Symposium

The occasion that prompted the remarks of Mr. Maplethorpe was the reporting by Mr. Grainger of a symposium on "The respective rôles of the physician and pharmacist in the evaluation of drugs." By invitation, 120 physicians and pharmacists are to attend, and the meeting should be productive of much valuable discussion. I must confess to a little uneasiness in the matter of its organisation, in that a named manufacturing house is to be associated jointly with the Association of Teaching Hospital Pharmacists. I do not for a moment impugn the motives of the firm concerned. My feeling rather is that the body responsible jointly with the hospital association might have been the Society, for I agree with Mr. Maplethorpe that the subject is one in which the Society should take an active part. The part played by *any* firm might be open to misinterpretation no matter how disinterested their motives.

Flies

It is a far cry from the time when pharmacists manufactured their own arsenical flypapers—a proceeding that must have been fraught with danger to all concerned—the chemist, his boy, the customer, and the legitimate consumer. I cannot recall that particular lethal commodity, but I have painful memories of the gummed variety, both in the roll and the flat. The advantage of the roll over the flat was that you were unlikely to sit on it. Conversely, you were less likely to have your hair caught up on the flat one, for the roll was generally suspended in the centre of the room, adding gaiety to the party by dropping gum and mucilaginous flies on to the table at meal-times. For those with hunting instincts there was the flexible fly swat which, while effective, was not calculated to enhance the appearance of the wall paper. Still less to be commended was *The Times*, which carried too much weight. But today, after passing through the quasi fire-extinguisher stage, we have reached the press-button era. The only hope left to the fly is that an impulsive attacker may go into action armed with hair lacquer, perfume or sun-tan lotion.

TRADE NOTES

A Tin of 100. — Parke, Davis & Co., Ltd., Staines Road, Hounslow, Middlesex, have made available an additional size (a tin of 100) of Humatin capsules.

Christmas Cards for Customers. — Twelve Christmas cards each containing a photograph of her baby are being offered to every mother returning three Heinz baby food labels with 7s. to the manufacturers, H. J. Heinz Co., Ltd., Harlesden, London, N.W.10. Entry coupons and display matter are being offered to chemists.

Under New Management. — Dr. Hair's Proprietaries, Ltd., The Mill, Stanwell Moor, Staines, Middlesex, announce a change of management and new board of directors. Orders should continue to be sent to the company's premises at The Mill, Stanwell Moor, Staines, Middlesex. Dr. Hair's asthma preparations are available for prompt supply from stock either through wholesalers or direct.

Price Changes. — JEYES (SALES), LTD., River Road, Barking, Essex, announce increased prices for Jeypeat.—ROCHE PRODUCTS, LTD., 15 Manchester Square, London, W.1, have reduced the prices of Becosym and Benerva Compound tablets.—SILTEN, LTD., Silten House, Hatfield, Herts, have reduced the prices of some of their Silbephyl-line products.

Change of Name.—The makers of Warmabed electric blankets announce that they are in future using the title Warmabed, Ltd., Hollingworth Lane, Knottingley, Yorks, instead of Modern Electrical Industries, Ltd. There is no other change in the constitution of the company, which has specialised in the design and manufacture of electric blankets for over thirty years. Promotion plans for the season include the biggest-ever advertising campaign for both the company's *De Luxe* and Golden Rest models. All models have been given bright new packs, and a window display competition with cash prizes totalling £320 is announced.

Christmas Displays.—The following hotel displays of goods for the Christmas season are announced:

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1 (and winter lines and pharmaceutical supplies).

BELFAST: Kensington, College Square East, September 19–22.
BIRMINGHAM: Imperial, September 12–16.
CHELTENHAM: Plough, September 5–9.
GLASGOW: Kenilworth, September 26–30.
HANLEY: Grand, September 19–23.
MANCHESTER: Midland, September 26–30.

GOYA, LTD., 161 New Bond Street, London, W.1 (and Jane Seymour and Corvette).

BIRMINGHAM: Grand, September 5–9
BOURNEMOUTH: Norfolk, September 27–29.
BRISTOL: Royal, August 22–26.
CARDIFF: Royal, September 5–9.
EDINBURGH: North British, September 12–16.
EXETER: Rougemont, September 13–15.
GLASGOW: North British, September 5–9.
HANLEY: Grand, August 30–September 1.
HULL: Royal Station, August 22–26.
LEEDS: Metropole, August 29 to September 2.
LIVERPOOL: Adelphi, August 29 to September 2.
MANCHESTER: Midland, September 5–9.
NEWCASTLE-ON-TYNE: Royal Station, August 29 to September 2.
NOTTINGHAM: County, September 12–16.
PLYMOUTH: Duke of Cornwall, September 6–8.
SOUTHAMPTON: Polygon, August 16–18.
TRURO: Royal, September 21–22.

Curling Tissues. — C.A.L.G. Enterprises, Ltd., 34 Upper Brook Street, Park Lane, London, W.1, are marketing, through wholesalers and direct, wet and set hair-curling tissues in packets.

Manufacture in Ceylon.—In view of the Ceylon Government's policy of restricting importation of consumer goods, including pharmaceuticals and cosmetics, Colombo International Trading Enterprise, 538 Alutmawatte Road, Colombo, Ceylon, are exploring the possibilities of manufacturing such products in Ceylon. They are at present interested in manufacturing a tooth-powder, and would welcome communications from British manufacturers wishing to co-operate in the supply of the necessary ingredients.

Bonus Offers

MERCK SHARP & DOHME, LTD., Hoddesdon, Herts. Tyrozets and Sucrets. Terms from the company's representatives or direct.

TRICO DEVELOPMENTS CO., LTD., Great West Road, Brentford, Middlesex. Plastabook. Two bonus booklets and free display stand for order of thirty. Till September 30.

VACCO, LTD., Grosvenor Gardens House, Grosvenor Gardens, London, S.W.1. Vacco tea flasks. An additional 5 per cent. on special packs containing twelve standard and four family-size tea flasks dispatched between September 1 and December 21. Each flask has two-colour sleeve with Christmas design.

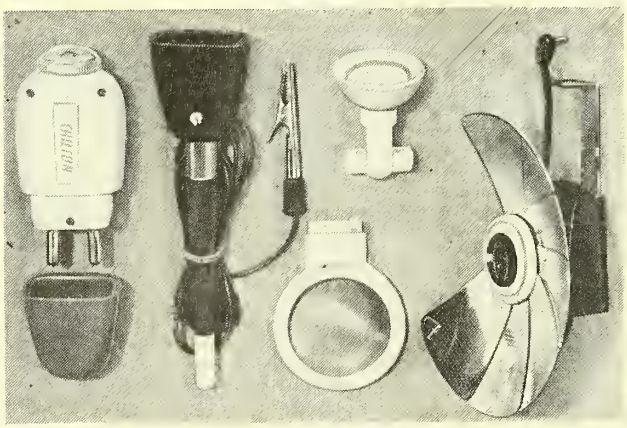
INFORMATION WANTED

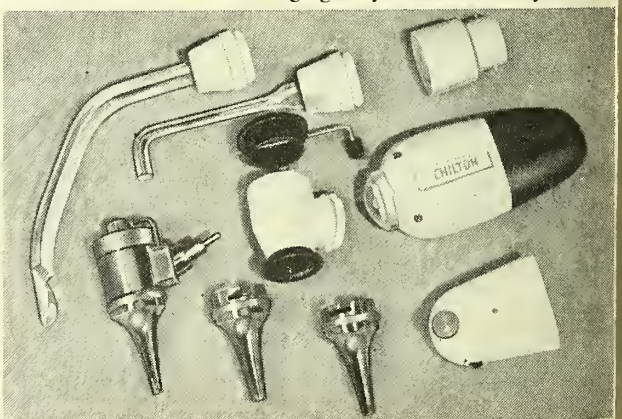
The Editor would appreciate information about the following:

Alboline
Medoline

A RECHARGEABLE TORCH WITH ACCESSORIES

A HAND torch that is recharged from the mains and for which numerous accessories are available is being marketed by Chilton Electric Products, Ltd., Hungerford, Berks. The torch, the Acculux, weighs only 3 oz. and has an appearance described by the makers as "neat and clinical." A "magic eye" glows when the torch is switched off, making the torch easy to locate in the dark, and all components, including points for inserting into a mains plug for recharging, are within its plastic casing. The wide range of accessories available as separate purchasable items includes, for the ordinary user, a capacitor flash apparatus for indoor photography; a magnifier which gives an illuminated enlarged image of stamps, negatives, flower parts, etc., a thread counter and front-lens supplement to the magnifier; a reading glass giving x4 magnification; a circuit tester; a suction pad enabling the torch to be attached to any surface; and a flexible extension "spy light" for inspecting bores and apertures. For the medical user there are available an otoscope and adapter (fitting almost any type); a mouth torch attachment providing a pencil beam; and a kit of three sterilisable throat spatulas in transparent plastic that "pipes" the light to illuminate the whole of the oral cavity. A full recharge takes fifteen hours; partial recharging may be done at any time.





RECHARGEABLE TORCH AND ACCESSORIES: The Chilton pocket torch (extreme left) uncapped to show method of plugging in to mains for recharging, alongside its accessories for the general and (right) medical user.

NEW PRODUCTS AND PACKS

A "Book" of Dressings.—Plastabook —"the plaster in a booklet"—is a product of Trico Developments Co., Ltd., Great West Road, Brentford, Middlesex. It presents waterproof and fabric first-aid dressings individually sealed in plastic leaves in five colours.

Sugarless but Sweet. — A "fully sweetened" orange or lemon squash in 2-oz. bottle (making twelve drinks), Esslim is claimed by the manufacturers, Sodastream, Ltd., 22 Oval Road, London, N.W.1, to be equally suitable for slimmers, diabetics and those who merely want a good fruit drink.

In Redesigned Pack. — Woodwards Gripe Water now appears in a new blue and white carton aimed at giving a more modern appearance without sacrifice of what is familiar to customers. The foil cap of the bottle has been replaced by a screw-on cap. Makers are W. Woodward, Ltd., 51 Clapham Road, London, S.W.9.

Moss-killer for Use on Lawns. — May & Baker, Ltd., Dagenham, Essex, have produced a moss-killer, Mos-tox, for use on lawns. Mos-tox may be used to clear an established infestation of mosses at any time of the year, but is recommended for treatment between Autumn and Spring, when the moss is particularly susceptible and there is little other work to be done in the garden. It is used at the rate of 1 oz. (two tablespoonfuls) in 1 gallon of water. The powder is mixed to a thin paste with water and added to the rest of the gallon. It is then watered on the moss-infested areas. One application should be enough to kill mosses in 1–2 weeks. To avoid reinfestation, a regular programme of lawn care—spiking, top dressing, fertilising and mowing—should be carried out to improve soil conditions and encourage the grass to grow. The new product is available in packs for treating 20 sq. yd. and 40 sq. yd. respectively.

A New Analgesic.—Laboratories for Applied Biology, Ltd., 91 Amhurst Park, London, N.16, announce the introduction of Duromorph, a long-acting aqueous suspension of morphine in microcrystalline form for subcutaneous or intramuscular injection. Duromorph is slowly and gradually absorbed from the site of injection to provide satisfactory sedative, narcotic and analgesic effects in patients subjected to the intractable pain of inoperable or terminal carcinoma, and in other conditions of severe pain. It is understood to be well-tolerated, even by senile, restless patients to whom morphine would not ordinarily be administered because of the danger of side effects. Commencing in 10–30 minutes, the effect is maintained for up to nine hours by a single injection. Duromorph is available in box of six 1·1 mil vials each containing gr. 1·1.

Cologne in Golden Spray. — The perfumed spray Colognes of Goya, Ltd., 161 New Bond Street, London, W.1, are being presented in a new golden spray, for which a three-dimensional counter display has been produced. The spray Colognes are available in the five "classic" Goya fragrances: Passport, Black Rose, Gardenia, Remember and No. 5, as well as in the new Love Affair.

NEW SHOWROOMS IN TWO CAPITALS

Ilford, Ltd., open photographic centres in London and Dublin

A NEW showroom and photographic centre at 133 Oxford Street, London, W.1, was officially opened for Ilford, Ltd., by the Duke of Bedford on August 10. To mark the opening the company are staging at the new centre, an exhibition of pictures arranged in collaboration with the British Travel and Holidays Association.

At the new premises (which replace the old Ilford Gallery in Holborn) there are a large open-area for photographic exhibitions; an information centre; a retail counter; a number of meeting rooms (one seating up to fifty); and a projection theatre each of which the fullest use is invited. There are also showrooms for the latest Azoflex dyeline photoprinting equipment and Photomation machinery; as well as technicians to answer questions on all aspects of the Ilford colour processes; cine and television sales, and a motion picture technical service. In charge of the new Ilford House is Mr. A. F. Braithwaite, M.B.E., whom many will remember as manager of the old Holborn premises. Hours of opening are: Weekdays, 9 a.m.–5.30 p.m.; Thursdays, 9 a.m.–7.30 p.m.; Saturdays, 9 a.m.–12.30 p.m.

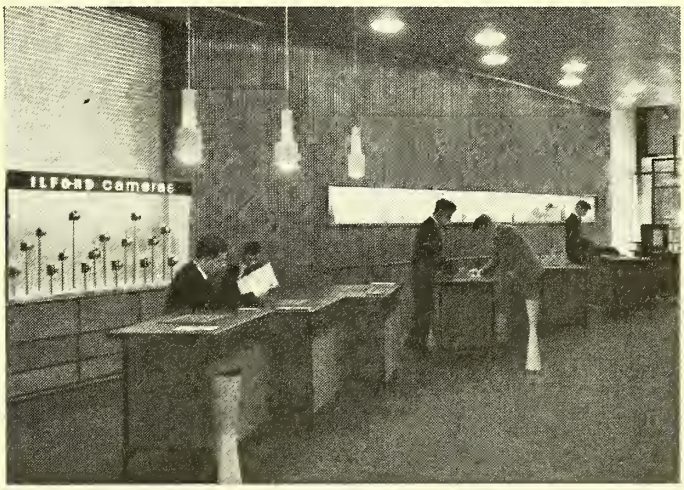
The opening of Ilford House does not in any way alter the ordering of goods through the company's central London depôt, 55 Saffron Hill, E.C.1.

Expansion Dictates a Move

Expansion of the company's business in the Republic of Ireland also influenced a move recently into imposing new Irish headquarters at 33 James's Street, Dublin, which is to be known as Ilford House. The premises have an "L" shaped reception salon on the ground floor, designed by the company's architect. The walls, covered in polished and grooved light maghogany, the modern furniture and a blue-grey fitted carpet, combine to provide a harmonious and pleasing décor. One side of the salon has slate-grey felted walls on which are shown an imposing array of pictures taken by leading Irish professional photographers with Ilford materials.

On the second side of the salon is located an inset display unit for the showing of Ilford cameras and accessories, while opposite it is a service hatch direct from the stock rooms and warehouse from which callers can be served. Off the salon are located the offices.

A part of the accommodation is given over to a comprehensive exhibition of equipment for the photofinisher and to demonstrate Ilford's Azoflex system of print and document copying.



At left, a part of the reception salon at the Dublin premises; at right, a general view of the retail sales section in the London showroom.

CHAIRMAN'S STATEMENT

THE DISTILLERS COMPANY LIMITED

The 83rd Annual General Meeting of The Distillers Company Limited will be held in the North British Hotel, Edinburgh, on Friday the 9th day of September, 1960, at 12.15 p.m. The following are excerpts from the Statement by the Chairman, Sir Graham Hayman, which has been circulated with the Report and Accounts for the year ended 31st March, 1960.

General Observations on Trading

Once again I am able to report that the results for the year constitute a new record in earnings, and the total value of the Group's turnover exceeded £233,000,000, representing an increase of 11 per cent. over the previous year. Although nearly all branches of the Company have contributed to this result, by far the major proportion is attributable to increased sales of Scotch Whisky. The Industrial Group has also had a satisfactory year with 27 per cent. increase in earnings, and the return on capital employed compares favourably with its leading competitors.

Turning to the Accounts, the trading profit of the Group amounts to £30,419,758, compared with £24,989,991 last year, and income from trade investments totalled £2,373,590 against £1,788,997, so that our total income was £6,014,360 higher than last year, at £32,793,348. The credit for the increase can be apportioned broadly between our potable and chemical interests in the proportion in which they have contributed to our profits in the past, our major potable interests showing an increase of about £4,500,000, and our industrial divisions, including their part of income from trade investments, recording an advance of well over £1,000,000.

Interest on loan stocks has been reduced by a further repayment of £1,000,000 and now requires £649,509, and the profit attributable to outside shareholders in Subsidiary Companies is somewhat larger at £533,715, so that the profit of the Group after all charges amounts to £31,610,124, compared with £25,693,778 last year. Taxation this year requires £14,743,700, leaving a net profit of £16,866,424—almost £3,700,000 more than last year.

There is a substantial credit below the line in respect of taxation reserves no longer required and, of the total available for appropriation, £5,698,134 has been retained by Subsidiary Companies, leaving £12,542,720 to be dealt with in the Accounts of the Parent Company.

With due regard to the future capital requirements of the Company, and to the higher rate of profits tax which will be payable next year, your Board feels able to increase the dividend by 2½ per cent. and recommends a final dividend of 10 per cent. which, with the interim of 5 per cent. already paid, makes 15 per cent. for the year. The Board has also transferred £5,000,000 to general reserve, and it is now proposed, subject to the approval of the shareholders, to capitalise part of the reserves by the issue of one new ordinary share of 10/- credited as fully paid for every five ordinary shares held.

As shareholders will appreciate, time is required to make the requisite arrangements for a capital issue and, at this stage, it is difficult to say whether these will have been completed before the time comes round for declaration of next year's interim dividend. It is the Board's intention, however, to declare an interim dividend at the rate of 6 per cent. on the present capital, but this payment should not be taken as an indication that the total dividend next year will be any higher than the equivalent of the current year's dividends.

Scotch Whisky

Our Malt and Grain distilleries, despite the drought last year, have completed their distilling programme with improved efficiency and productivity. The increase in distilling capacity at our Malt distilleries has been materially helped by a new process of effluent treatment developed by our research staff to ensure that discharges to rivers comply with recent legislation. Although considerable capital expenditure has been incurred in meeting the new regulations, this has been offset to an appreciable extent by the production of a valuable animal feedstuff as a by-product, and we have also secured a substantial increase in the availability of excellent malt whiskies.

New warehouse construction has continued throughout the year to accommodate our rising stocks. As far as possible, our new warehouses are sited in rural areas and each is equipped with the most modern fire detection systems to ensure immediate action by fire fighting services in the event of an emergency.

Since the last war, approximately £250,000 has been expended by the Company on fire detection installations.

With regard to stocks, there was a further increase in the stocks of Scotch Whisky held by the entire Industry, which, at 31st March, 1960, stood at 267 million proof gallons, compared with 243 million proof gallons last year.

I reported last year on our decision to abandon the quota system in the Home market, to enable our brands to come into free supply. I am glad to say that our experience during the year has clearly demonstrated the high regard of the public for our brands.

Nevertheless, while your Group has gained a larger share of the sales in the Home market, there is little cause for complacency. The total Industry sales of Scotch Whisky in that market—in spite of derationing — are still below the level achieved immediately prior to the War, and it is clearly important to secure an expansion in the Home trade. This will not be an easy task, and some reduction in the present punitive rates of duty would provide a valuable stimulus.

With regard to the Export markets, the U.S.A., which still absorbs approximately one half of the Industry's exports, continues to take increasing supplies. Most leading brands are now fairly freely available, and while some further expansion in sales can be expected to follow the growing prosperity and increasing population, there is no doubt that greater efforts will be required by both shippers and importers to secure this.

The Scotch Whisky industry is still pressing for an amendment to the U.S. tax regulations under which imports of Scotch Whisky in bottles at the normal marketing strength of 86° American proof, are taxed on an assumed basis of 100° proof. This provision in the U.S. Revenue Laws was introduced many years ago to prevent loss to the Revenue in circumstances which no longer exist. It is not applied to American whiskies and it is hoped that steps will be taken to remedy this unjustifiable surcharge.

In other markets where shipments are not affected by local restrictions, the demand for our brands during the past year has, in many cases, been greater than we could satisfy. Certain additional gallonage will be available during the current yea and while it is too early to say if this w be readily absorbed, the fact that o brands are strongly established in all ir portant export markets gives good groun for confidence in the outcome.

Gin

In my last statement, I referred to th increasing competition which our Gin Con panies were facing in the Home Marke These conditions have continued, but I a able to report that our brands have mo than held their position, and sales showe a very satisfactory increase over the prev ous year.

Our general export trade was satisfa tory, and total shipments show a substa tial increase.

Your Company has under consideratio the production of one or more of i brands of Gin in various overseas marke where changing economic conditions an competition from local manufacture mak this desirable.

Industrial Group

CHEMICAL DIVISION. With the gener revival in industrial activity, there has bee a substantial increase in the sales of a our chemicals, with a corresponding in provement in earnings. While no ne major plants were brought into produc tion, our butanol manufacture was full re-established at Hull, and the new plan for continuous manufacture of phthala plasticisers is in full operation. Carbo dioxide had a record year, and the indu trial use of this product continues to i crease.

A major development, recently a nounced in the Press, is the constructio of a new plant to produce acetic aci Acetic acid, in addition to having a wi general sale, is one of our principal ra materials used to produce a range of chem cal derivatives. The new plant will opera an entirely new process developed by o Research Department, which should gi significant economies in production cost

BRITISH HYDROCARBON CHEMICALS LIM TED. Three new plants have been con missioned during the year. The first plan for the production of high density pol ethylene, presented a number of teethi problems. These are now being steadi overcome, and production of specificatio material is now fully established. The tw other units for the production of cume and phenol are both operating well a to full capacity.

Three further major projects are now hand. First, a substantial increase in o production of butadiene, for which the is an increasing demand in the manufa ture of synthetic rubbers. Second, a ne plant to produce methanol, which has wide variety of industrial uses. The thi project is the production of ethylene chloride, which will be used by our Plasti Division in their expanding manufacture polyvinyl chloride resins.

The new cracking plant, with its capaci of 70,000 tons per annum of ethylene, which I referred last year, was successful commissioned in June of this year.

Forth Chemicals Limited, and Gran Chemicals Limited, subsidiaries of Briti Hydrocarbon Chemicals Limited, have eac

ad a very good year. Forth Chemicals Limited has decided on a further increase of its production of monomeric styrene, which should be in operation by the end of the year.

PLASTICS DIVISION. Last year's indications of an increased demand for plastics, particularly for industrial applications, have been fully confirmed, and this Division has had an exceptionally busy year.

British Geon Limited has in hand a further substantial increase in its capacity for polyvinyl chloride, for which the demand is still increasing. It is also increasing its production of Hycar oil resistant synthetic rubbers.

British Resin Products Limited has had a good year, a particular feature of which has been the promotion of the sales of 'Rigidex,' the new polyethylene made by British Hydrocarbon Chemicals Limited. This material is finding increasing acceptance in a number of new fields.

Distrene Limited increased its production of polystyrene during the year, to meet expanding sales.

BIOCHEMICAL DIVISION. Although this Division succeeded in increasing its volume of sales, and there was continued improvement in technical efficiencies, the low prices ruling in world markets have resulted in substantially reduced margins. Special efforts are being directed to the discovery of new products to broaden our base in this business, and some progress is being made.

Last year I referred to the formation of an Australian subsidiary. I am glad to report that its first year's trading is satisfactory, and the prospects are encouraging. We have taken similar steps in New Zealand, where another subsidiary company has been formed.

FOOD DIVISION. *Yeast.* There has been a steady decline in the consumption of bread over recent years, with a corresponding fall in the use of yeast, but during the period under review, this trend has ceased and there are signs of a slight increase. Trading results were very satisfactory.

Oils and Fats. In spite of intense competition between the two major companies in this field, our subsidiary, The Peerless Refining Company (Liverpool) Limited, has again increased its sales and earnings.

Technical Development

The steady expansion of our diverse operations, to which only brief reference has been possible in this report, is in large measure dependent upon the technical skill and achievements of the scientific and engineering staffs in our organisation.

The Company takes considerable pride in the fact that our technologists have built up a first-class reputation both in this country and with the many overseas companies with whom they have regular contact, and the Board has every confidence in their ability to break new and fertile ground in the future.

Personnel

A major contributing factor to the outstanding results of the past year has been the fuller over-all employment of all our producing resources and this, in turn, has placed a considerable burden of added responsibility on our executives, managers and personnel at all levels throughout the organisation.

It is therefore particularly appropriate to record a sincere tribute and the grateful thanks of the Board to all employees both at home and overseas, for the part they have played in the service of the Group.

COMPANY NEWS

Previous year's figures in parentheses

STEPHEN SMITH & CO., LTD.—Net profit for year ended April 30, £21,547 (£21,492) and dividend 10 per cent. (same). Fixed assets £124,419 (£123,264), current assets £506,974 (£514,363) and liabilities £73,534 (£70,603).

HILL'S BALSAM, LTD., Spring Bank Works, Nelson, Lancs, announce that the name of the company has been changed to Hill's Pharmaceuticals, Ltd. There has been no change in directorships or shareholdings, and no kind of reorganisation has been involved. The change became effective on August 1.

HICKSON & WELCH (HOLDINGS), LTD.—Philip Hill, Higginson, Erlangers, Ltd., announce that, in connection with the issue of 500,000 Ordinary shares of ten shillings each at 40s. per share of Hickson & Welch (Holdings), Ltd., shareholders have exercised their rights to subscribe to the extent of 496,371 shares (over 99¼% of the shares provisionally allotted to them). The shares not taken up have been sold and the net proceeds, after deduction of the issue price, are being remitted, in due course, to the persons to whom the provisional allotment letters were issued.

IMPERIAL CHEMICAL INDUSTRIES, LTD. — For administrative reasons, the Salt Division is to be merged into the Alkali Division on January 1, 1961. The general policy regarding production and sales of salt will remain unchanged. Relations with suppliers and customers will be unaffected by the change.—Over 93,000 employees of the company have qualified for a 1959 bonus under the company's profit-sharing scheme, amounting to £7,306,000 gross, an average per employee of £78 7s. 4d. After tax deductions the company has paid the bonus to the trustees of the scheme, who will use it to acquire, on behalf of the employees, £1,825,000 I.C.I. ordinary stock to be issued by the company for that purpose out of its unissued capital.

New Companies

P.C.=Private Company; R.O.=Registered Office

JOHN D. JENKINS (CHEMISTS), LTD. (P.C.).—Capital £100. To carry on the business of dispensing chemists, etc. Directors: John D. O. Jenkins, M.P.S., and Brenda S. Belton, 67 Erith Road, Belvedere, Kent. R.O.: 32 Station Road, Bexleyheath, Kent.

H. E. PURCHASE, LTD. (P.C.).—Capital £1,000. To carry on the business of chemists, druggists, drysalters, etc. Directors: Harold G. Purchase, Emily C. Purchase and Harold E. Purchase, M.P.S. R.O.: 30 Clarendon Road, Harrow, Middlesex.

MANOR PARK CHEMISTS, LTD. (P.C.).—Capital £100. To carry on the business of wholesale and retail chemists, etc. Directors: Rachela Turgiel, M.P.S., and Ida Turgiel. R.O.: 725 Romford Road, Manor Park, London, E.12.

ARNOLD E. BENDER, LTD. (P.C.).—Capital £100. To carry on the business of consulting and analytical chemists and druggists, etc. Directors: Arnold E. Bender and Deborah Bender. R.O.: 2 Avalon Road, London, W.13.

D. T. CAMERON (CHEMISTS), LTD. (P.C.).—Capital £100. To carry on the business of dispensing chemists, druggists, ophthalmic opticians, etc. Directors: Donald T. Cameron, M.P.S., and Georgina Cameron. R.O.: 31 Bold Street, Warrington.

SOUTHSEA BOTTLE CO., LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in glass bottles and containers, etc. Directors: Cecil Copus and Archie Deacon. R.O.: 167 Stamshaw Road, Portsmouth.

WILLIAMS CHEMISTS (CORNWALL), LTD. (P.C.).—Capital £1,000. To acquire the business carried on by Henry R. Thelwell. Directors: Harry R. Thelwell, M.P.S., and Barbara A. Thelwell. R.O.: 30 Molesworth Street, Wadebridge, Cornwall.

LEO LABORATORIES, LTD. (P.C.).—Capital £25,000. To carry on the business of manufacturers of and dealers in drugs, veterinary medicines, chemicals, insecticides, etc. Solicitors: Linklaters & Paines, 59 Gresham Street, London, E.C.2.

SYNTAFLOR, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturers of and dealers in perfumery essences, cosmetics. Directors: Zbigniew Golebiowski and Helena Ryzewska. R.O.: 285 Terminal House, London, S.W.1.

N. AND D. CHEMISTS, LTD. (P.C.).—Capital £1,000. To carry on the business of wholesale and retail chemists, pharmacists, etc. Directors: Dr. Joseph C. T. Roberts and Joseph M. T. Roberts. R.O.: 17 Church Street, Blaydon-on-Tyne.

M. COPELAND (WHOLESALE), LTD. (P.C.).—Capital £100. To carry on the business of general chemists, etc. Directors: Maurice Copeland, M.P.S., and Shirley Copeland (directors, M. Copeland, Ltd.). R.O.: 3 Marsden Street, Manchester, 2.

G. W. & A. D. ASPINALL, LTD. (P.C.).—Capital £100. To carry on the business of manufacturing and analytical chemists, etc. Directors: George W. Aspinall and Anna D. Aspinall. R.O.: Jason Works, Holland Mews, Hove, Sussex.

EAST LANCASHIRE SOAP CO., LTD. (P.C.).—Capital £100. To acquire the trade name of "Dr. Lovelaces Family Soap" and the goodwill, formulas and connection of the business formerly carried on by the East Lancashire Soap Co., Ltd., at Clayton le Moors, etc. Directors: John T. Terleski and Alexander Russell (directors, David Thom & Co., Ltd.). R.O.: Indigo Street, Manchester, 6.

BUSINESS CHANGES

W. BULLIVANT & SON, LTD., closed down their business at 30 West Street, Boston, Lincs, on August 13.

MR. F. WALKER, M.P.S., has taken over the pharmaceutical business of J. Robson, 26 Scotch Street, Carlisle, Cumberland.

FRANK A. CONDUIT & CO., have removed to more commodious premises at 14 Coleman Street, London, E.C.2 (telephone: Metropolitan 3580).

MR. D. L. KELLY, M.P.S.N.I., has acquired the pharmaceutical section of Grattan & Co., Ltd., Belfast, and is continuing it under the title Grattan Chemists, Ltd., 31 University Road, Belfast.

Appointments

RADIOL CHEMICALS, LTD., 78 Upper Richmond Road, London, S.W.15, have appointed Mr. R. Sebright their representative in the Southern Home Counties from August 29.

THE WELLCOME FOUNDATION, LTD. — Dr. Fred Wrigley, M.R.C.S., L.R.C.P., D.I.H., M.P.S., succeeds Mr. Leslie G. Matthews, M.M., F.P.S, on September 1 as director in charge of the associated companies of the group overseas.

PERSONALITIES

MR. JIM LEWIS (a sales representative of Thermos, Ltd.) has been chosen for the third time—a record—to play in the Association football team to represent Great Britain in the Olympic Games. Mr. Lewis, who covers the Midlands and Eastern counties for the company, holds forty-one amateur international soccer caps. After several years with Chelsea, he is back with his original club (Walthamstow Avenue), where the team secretary is his father (Jim Lewis, sen., formerly also an international player).

MR. LESLIE G. MATTHEWS, M.M., F.P.S., who, at his own wish, is retiring from the board of the Wellcome Foundation, Ltd., has had a long association with the company, which he joined after qualifying in 1921. He was successively assistant secretary, secretary, director of distribution and director with special responsibility for the associated companies overseas. From 1942 to 1944 he acted as secretary of the general penicillin committee set up by the Ministry of Supply. In 1945 he was called to the Bar by the Middle Temple, and in 1957 he was elected a fellow of the Society of Antiquaries. Since 1944 Mr. Matthews has been a member of the Council of the Association of British Chemical Manufacturers. Mr. Matthews was a subject in the series Figures in the Pharmaceutical World (*C. & D.*, December 13, 1958, p. 633) and has contributed a number of articles on pharmaceutical historical topics to these columns.

DR. FRED WRIGLEY, M.R.C.S., L.R.C.P., D.I.H., M.P.S., who is taking charge of the overseas associated companies of the Wellcome Foundation, Ltd. (see above) qualified in 1930 and worked for seven years as general manager of Latewards, Ltd., Manchester. He later returned to Manchester University as a medical student and after qualifying held appointments at the Stockport and Manchester Royal Infirmaries. At the end of the 1939–45 war he returned to industry, joining Roche Products, Ltd., as director of clinical research and after seven years went to Canada as medical director for CIBA Laboratories, Ltd., for three years, before being appointed manager of the pharmaceutical division and assistant general manager of the whole of the CIBA activities in Canada. He returned from Canada to take up an appointment with the Wellcome Foundation, Ltd., and was elected to the board in September 1957. He is also a director of Cooper, McDougall & Robertson, Ltd.

DEATHS

ADAMS.—On July 29, Mr. William Adams, M.P.S., Hotel Stuart, Richmond Hill, Richmond, Surrey. Mr. Adams, who qualified during 1920, carried on business at 410 Morningside Road, Edinburgh, for many years.

ARONSON. — On August 9, Mr. Alexander H. Aronson, a former president of the Ronson Corporation of America. Mr. Aronson, who was in his late sixties, was the son of the founder of the Ronson organisation and became president of the Corporation in 1952. He resigned after a short period owing to ill health but continued as chairman of the board of directors. His son, Mr. Louis V. Aronson, is the present president of the Ronson Corporation.

OGLE. — On July 21, Mr. Arthu Beaumont Ogle, M.P.S., Struan, Basset Close, Southampton. Mr. Ogle qualifie during 1910.

PEACOCK.—On July 23, Dr. Wil liam Luddington Peacock, Elgon Lodg Bells Hill, Stoke Poges. Dr. Peacoc qualified as a chemist and druggist du ing 1900. After a period in Africa h returned to Glasgow University wher he obtained a degree in medicine.

MEES.—At Honolulu, Hawaii, o August 15, Dr. Kenneth Mees, F.R.S aged seventy-eight. Dr. Mees, until h retirement, was a director of Kodal Ltd., and a director and vice-presider of the Eastman Kodak Company. H contributed largely to the company research and to development of i photographic processes.

TAIT.—Recently, Mr. James Charl Edward Tait, M.P.S., 246 Wollato Road, Nottingham, aged seventy-fou Mr. Tait was employed by Boots, Ltc for more than fifty years and at h retirement was head of the lozeng department. He returned to the con pany in 1952 as a part-time dispens at the company's branch at Wheel Gate, Nottingham. He had been work on the day of his death.

Correspondence

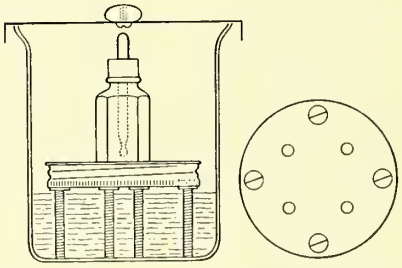
Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

Time Saver

SIR, — With regard to A. G. Murdoch's letter on "Guttae pro Oculis" (*C. & D.*, July 23, p. 106). Surely it is the customer who undergoes the delay. The pharmacist can just forget the preparation for half an hour while it is being heated. We have successfully used the following gadget for this preparation.

Materials required :—

1 lid from 500 Soneryl tin.
4 1¼-in. brass nuts and bolts of suitable diameter.
1 500-mil Pyrex beaker.
1 lid from 1,000 Actal tin.
1 bolt-on handle.



Bring to the boil on a gauze and turn to low gas. There was still ½ in. of water after 45 minutes.

P. J. ADAMS,
Bromley, Kent

A Matter of Relativity

SIR,—One could say Lumphanan (see *C. & D.*, August 13, p. 181) was obscure, but I would point out to Xrayser that Banchory is an up-to-date small town of 2,000–3,000 population on the Royal Deeside route. It has a town council and four pharmacies.

A. G. MURDOCH,
Mintlaw, Aberdeens

[The Automobile Associatio "Members' Handbook" gives t population of Banchory as 1,931. T 1931 Census figure was 1,690, and 1891 it was under 1,500. The Regist of Premises lists three pharmacie Xrayser's reference was to "his [D Francis Adams's] obscure little v lage" and must be related to Adam period. He was born in 1796 and di in 1861, when the population may ha been still smaller.—EDITOR.]

Not Ladylike

SIR,—The letters of your correspo dent, Mr. C. H. Patrick, are always source of inspiration and strength their vigour. Even so, I was appall to read the terminal word in his lett in the *C. & D.*, August 6 (p. 160) "Unacceptable Behaviour." From early upbringing I was taught to lo upon that word as most impol (although on the side, I did know much shorter one that was more pressive, even if more vulgar). I wou have thought that a pharmacist of M Patrick's undoubted calibre wou have used a more professional phra such as "thoroughly castigating posterior." If alternatives were desir although not a student of languages could provide him with two more.

SQUEAMISH

Pharmacists of the Future

SIR,—It will be interesting to what sort of products the new sche of pharmaceutical students' educati will turn out. The proposed visiti lecturers [on business matters] w probably make as much impression college students as did Christian m sionaries on the natives of dark Africa. As time progresses, howev all doctors may cease to prescri Pharmacists will then no longer be

quired—not even to count tablets, lick labels, or search through lists of the latest unknown synthetic wonder workers to find something faintly resembling the squiggles on EC10 forms. Possibly future diagnoses will be done by huge robot calculators fed with symbols of apparent symptoms, and perhaps the same machine will turn out prepacked products, duly selected and synchronising with the numbers dialled (all with generalised instructions for use: S.O.S., P.R.N., etc.). Doctors will become skilled knob pressers and pharmacists may be employed as marshals emptying the slot machines, collecting and forwarding the empties to Ministry of Health headquarters, and refill the machines with further supplies of cure-alls and synthetics! It may be that, in 2000 A.D., anyone seeking personal treatment for illness will have some difficulty in finding an old-time chemist, or herbalist, who can actually prepare a remedy himself!

ELDERLY PRACTISING PHARMACIST

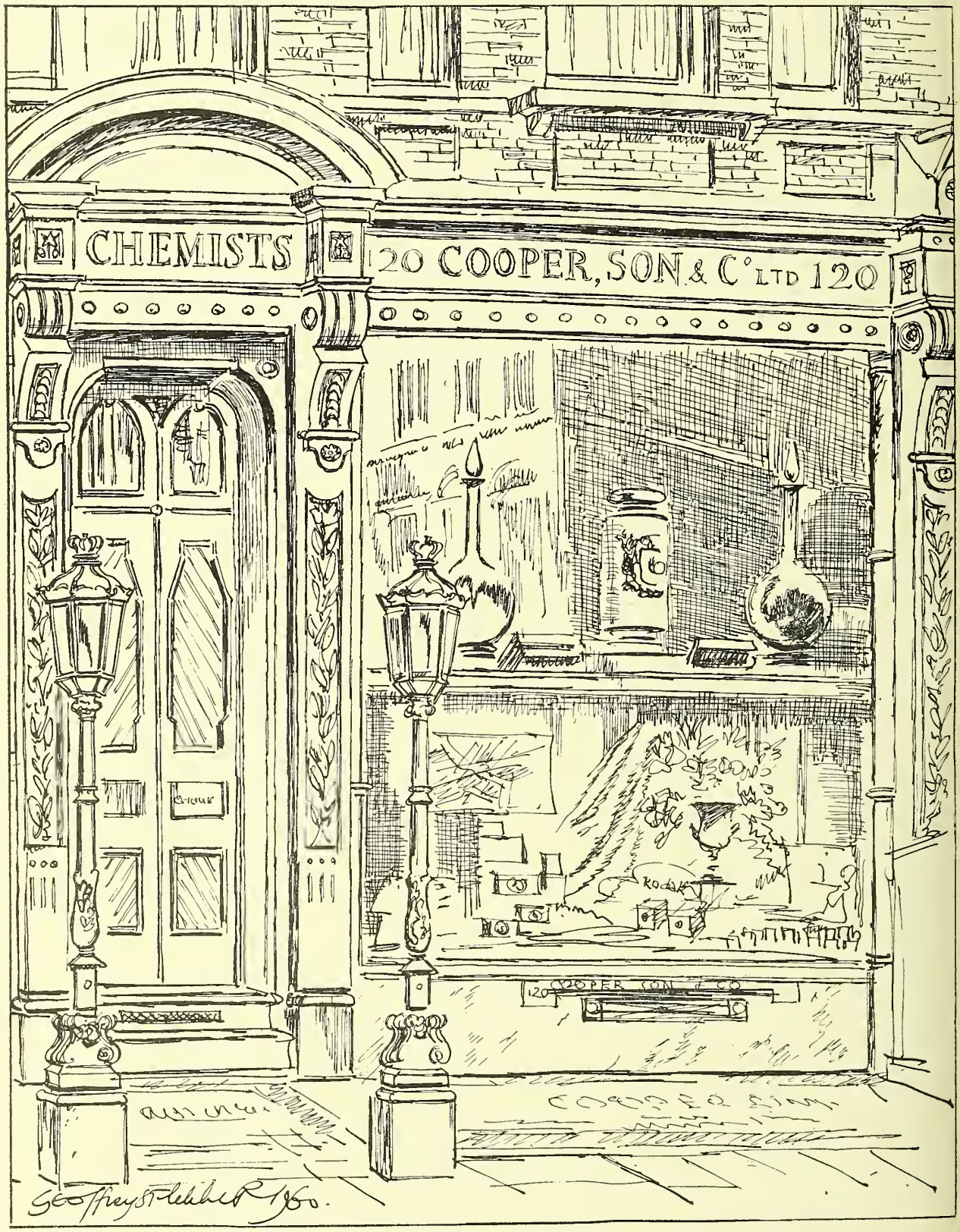
EXAMINATION RESULTS

Successful Pharmaceutical Chemist candidates in England and Wales

THE following candidates satisfied the examiners in the Pharmaceutical Chemist Qualifying examination (old regulations) held by the Pharmaceutical Society in England and Wales in July († = Certificate withheld pending evidence of practical training or age) :—

†Allsop, P. M., Birmingham
Andrews, R. C., Didcot
Anson, J. W., Stafford
†Armitage, J. G., Wellingborough
†Arnold, Eithne, North Finchley
†Ashcroft, Rhoda A., Liverpool
Ashen, Beryl P., Birmingham
Ashton, Patricia, Birmingham
Ashton, Yvonne M., Coventry
Austin, G., Birmingham
†Bailey, Lesley A., Birkenhead
†Banks, J. S., Ealing
Barley, Janet G., New Cross
†Barth, Anne L., Rugby
Bartley, Katharine M., Wotton-under-Edge
Bassant, A., Tenterden
†Basu, Debendra B., Bermondsey
†Beard, Margaret, Stoke-on-Trent
Beaven, M. A., Streatham
Bebbington, P., Warrington
†Benbow, B., Bolton
Berkley, R., Stoke Newington
Billam, R., Sunderland
Birley, G. W., Nottingham
†Blake, D. J., Sunbury-on-Thames
†Blundell, Judith A., Blackpool
†Boskin, R. C., Edgware
Bowler, E. J., Sutton-in-Ashfield
Brennan, T. P., Widnes
Bretherton, Elizabeth, Chorley
Brewster, R. L., Wolverhampton
†Broadhead, Ann, Darlington
†Brooks, J., Slough
†Brown, F. W., Brighton
Brown, G. B., Birmingham
Brunt, J. M., Draycott
†Bryson, M. F., Balham
Buckenham, P. E., Harrow
†Budd, H. F., Salford
†Budden, D. W., Birmingham
Burden, G. A., Bradford
Burdett, Myrtle E., Uppingham
†Burley, M. L., Birmingham
†Burridge, J. D., Swansea
Bush, Sheila M., Andover
Campbell, B., Birkenhead
Canning, A. P., Brackley
Cargeege, Madeleine H., Maidstone
†Chapman, W. N. P., Ware
Chatteron, R. B., Louth
†Cheetham, J. T., Rochdale
Chester, P. M., Sheffield
Clarke, C. J., Cambridge
†Clarke, T. G., Braunstone
Clews, J. W., Bilston
†Coker, I. F. G., Romford
†Coleman, D. L., Norwich
†Colson, Christine A., Rushden
Coombe, B. J., Hatfield
Cooper, N. D., Leicester
Cousins, Sylvia M., Maldon
Cracknell, Dorothy M., Holloway
Cross, J. K., Blackburn
Cross, Patricia A., Stoke-on-Trent
†Crouch, Hilary J., Herne Hill
†Cuss, Evelyn M., Chiswick
Daw, Arlette S., Ivybridge
Deane, R. W. N., Tamworth
†De Caux, Alison, Southport
Derham, J. D., Southampton
Doidge, Margaret I., Bournemouth
Draycott, Kathleen E., Thurmaston
†Durbin, B., Hayes
Durrant, J. A., Liverpool
†Eckersley, E. L. K., Swindon
Edington, J. D., Tufton
Eiles, J. A., Welling
†Ellis, G. W., Caernarvon
†Epstein, L., Cricklewood
Evans, H. W., Ffestiniog
Farn, Jennifer M., Rugby
†Farrington, B. H., Southwold
Ferguson, Lynda M., Newcastle-on-Tyne
Fisher, R. V., Norwich
†Flower, Joan E. A., Norwich
†Freeman, Christine E., West Bromwich
Freeman, Valerie, Bignall End
Gibbs, J. F., Bexhill-on-Sea
†Godfrey, R. M., Westcliff-on-Sea
Goodall, Leila C., Kettering
Green, Jennifer M., Bradford
†Griffin, Marjorie E., Leamington Spa
†Grundy, P. C. S., Dagenham
Haddrell, K. E. C., Cambridge
Halsall, K. G., Southport
†Hancock, Mary, Stoke-on-Trent
Hargreaves, R., Manchester
Harrington, Constance J., Bishopsgate
Harris, M. A., Liverpool
Harrison, J. B., Doncaster
†Harrison, Sheila F., Oldbury
Haydock, M., Preston
Heath, A., Sale
†Heath, P. J., Lowestoft
Heinemann, Judith, Leicester
†Helman, D., Wythenshaw
†Hill, P. J., Eastbourne
Hilton, K. T., Wigan
†Hopkins, Christine E., Luton
Hosking, Marjorie A., Blandford
†Hughes, W. K., Ogmore Vale
Humphrys, B. D., Bristol
Hunt, Delia, Thorpe
Jack, Sheena L., Rosewell
†Jackson, B. N., Castleford
†Jacobs, M. I., Manchester
Jeapes, Christine A., Hastings
†Jessel, Carole, West Green
Jones, Angela M., Penarth
Jones, D. B., Swansea
†Jones, G. F., Bolton
†Jones, Janet E., Blackwood
†Jones, R. G. P., Llanfyllin
Judge, F. M., Forest Hill
†Judson, D. W., Walsall
†Jukes, M. A., Weymouth
†Kennedy, A. J., Charlton
†Knight, F. H., St. Helens
Knowles, D. R., Brixham
†Larratt, Sandra E., Leicester
†Lee, Vivien O., Coventry
†Legg, C. R., Wareham
†Lewis, P. K. P., Amlwch
†Livingstone, M., Birmingham
†Lloyd, T. H. E., Llandysul
Love, Pauline M., Liverpool
Mann, Margaret H., Oxford
†Mantle, Joan R., Crosskeys
†Martin, R. W., Chatham
†Matthews, R. J., Nuneaton
†Mealings, Suzanne M., Birmingham
Messum, Priscilla M., Redhill
†Mitchell, Anne C., Newcastle-on-Tyne
†Moloney, M., Hinckley
†Monk, R. H., Guildford
Moore, Marjorie E., Swansea
Morgan, Shelagh E., Rhiwbina
Morris, Janet, Arnold
Moxon, Janet, Stoke-on-Trent
†Neale, R. W. J., Birmingham
Neave, M. W., Sevenoaks
†Nelson, Jean M., Wolverhampton
†Nelson, K., Wallasey
†Northwood, G., Penkridge
Nyhan, Norah, Birkenhead
O'Hara, Margaret M., Birmingham
†Okell, Enid M., York
Orman, B. A., Golders Green
Owens, R., Gelli Pentre
Parsons, Dorothy P., Stourbridge
Philip, Anne F., Wellington
†Pontin, M., Cardiff
Powderly, J. E., Loughborough
†Pyne, Jenifer E., Euston
Randall, D. G., Farncombe
Ratchford, P., Stoke-on-Trent
†Rattle, Pamela M., Nottingham
Rayner, J., Northwich
†Riddolls, Anthea, York
Rigby, P. A., Southampton
Seago, J. M., Rochdale
†Secker, P. A. I., Huddersfield
Seymour, Margaret V., Huddersfield
†Sharratt, Anna M., Brierley Hill
Sheldon, Jacqueline, Finsbury Park
†Shorley, Patricia G., Leeds
†Simmonds, A. P., Finchley
†Simms, D. W. E., Kettering
Sistern, Annette M., Liverpool
Skinner, Margaret A. C. Surbiton
Small, W. E., Southampton
Smith, Shirley M., Wembley
†Sopp, Irene D., Brighton
Spencer, G., Burnley
†Stanford, J. B., Ogmore Vale
Stanley, E. B., Madeley
Stevenson, N. A., Kettering
Steward, D. J., Uppingham
†Stibbe, Ann D. C., Leicester
†Stittle, J. C., Mildenhall
Stokes, D. J., Tunbridge Wells
Tagg, M. J., Watford
†Thomas, G., Mold
†Tobias, A. G., Manchester
†Topping, Audrey V., Birkenhead
Townsend, Sheila A. M., Rugby
Trezise, N. P., Cullompton
Tudge, Margaret, Manchester
†Tugwell, Linda E., Acton
Vicary, J. M. W., New Eltham
†Walker, J. R., Cleckheaton
Wallis, Vivien M., Thornton Heath
Walsh, A. H., Liverpool
†Walton, A., Penge
Waterhouse, E., Macclesfield
West, A. R., Beccles
†Whiteman, Judith A., Birkenhead
†Whitworth, Shelah M., Bangor
†Wignall, Marie, Stoke-on-Trent
Williams, A., Swansea
†Williams, Ann P., Pwllheli
Williams, Jenifer, Lincoln
†Williamson, I., Manchester
Wootten, A. D. R., Sawbridgeworth
Wright, A. P., Blackboys
Wright, Catherine M. W., Liverpool
†Wright, Pamela J., Ealing
†Wyles, J., Newbridge
Yarham, Gwendoline W., Herne Hill

PHARMACIES OF BRITAIN



THE PHARMACY AT 120 GLOUCESTER ROAD, LONDON, S.W.7

The pharmaceutical business of Cooper, Son & Co., Ltd., was established in 1863. The premises in Gloucester Road, Kensington, are characteristic of the style of the later Victorian years, blending Italian and Gothic elements.

LIGHTING THE PHARMACY

The way to better displays and improved sales

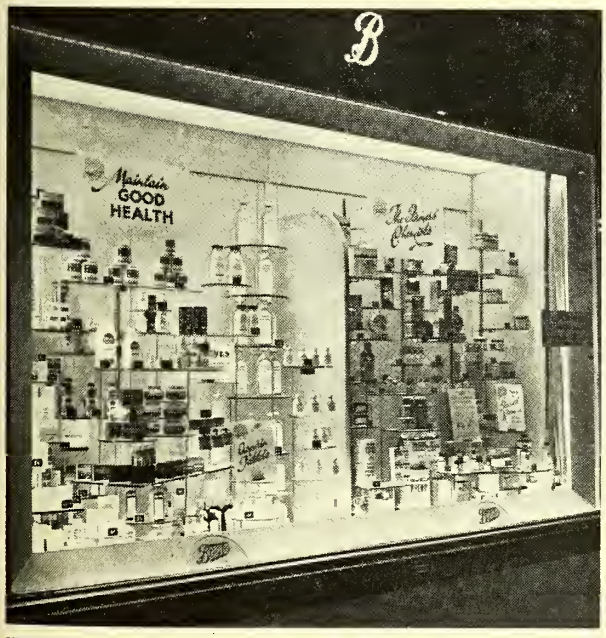
MOST people find pharmacy windows irresistible, and will usually find time to stand and stare. However, that does not mean that the chemist can concentrate less on display than people in other businesses, because they too, nowadays, may be selling "chemists' lines." Competition has probably never been more severe than it is today and the chemist must make the fullest use of all possible aids to attract the customer into the shop and increase sales.

One of those aids is lighting. It is an essential part of shop equipment and yet it is not always used in the most effective way.

The definition of a well-lighted window is one that people cannot pass without noticing what is for sale, and the definition of a good window display is that it must be sufficiently compelling to bring a potential customer into the shop: to do that the goods must not only be well laid out but also well illuminated. The precise value of lighting is hard to assess because its effects are subtle. But there is no doubt that a well lit shop is a successful one, for modern selling techniques exploit to the full the quality and quantity of illumination. Colour, pattern, direction, concentration and diffusion of light all have to be considered, as well as freedom from glare. A skilful display can be made or marred by the method of lighting.

Gecoray reflectors recessed into the ceiling provide high-intensity counter lighting. Price tickets and bottle labels can be clearly seen and shadow is completely absent.

Most of the items used for window display are attractive in themselves but, even so, everything possible should be done to emphasise particular aspects and draw attention to special qualities (unusual design, attractive packaging, etc.). It is here that lighting can be of the greatest value.



Fluorescent ceiling panels provide general illumination in this window display. Additional lighting is concealed at the base of the window and at the sides.

Shop windows vary widely in size and shape so that no hard and fast rules can be given, but the problems that have to be overcome are basically similar. How much and what kind of light should be used ? What is the most suitable kind of equipment and where should it be situated ? How much will it cost to install and operate ?

The quantity of light required to display an article adequately depends on its size, colour and texture and also on the contrast with its background. Dark finishes or matt-finished surfaces naturally need more concentrated light than, say, shaving mirrors or a display of shining instruments. In fact, the amount of light is dictated by the type of goods displayed. With a window of mixed objects, special items may be picked out by spotlights.

Fluorescent and Filament

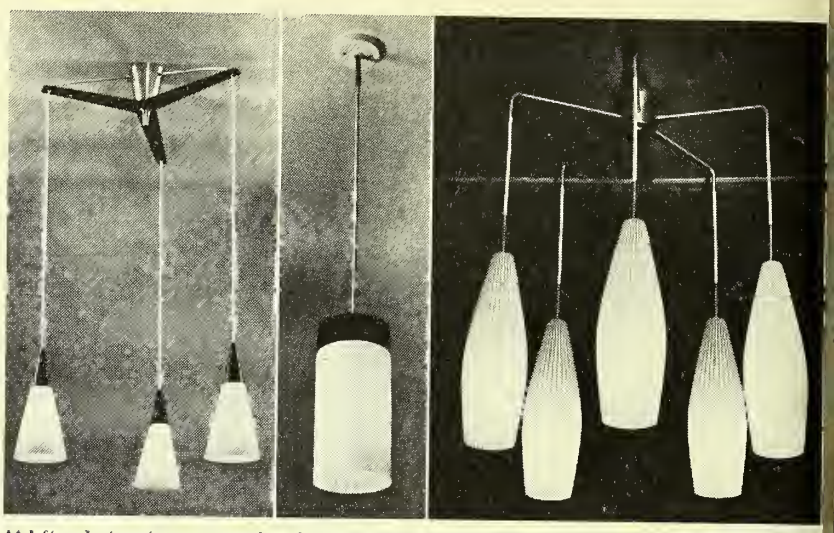
The two main kinds of light employed today are fluorescent tubes (hot cathode lamps) and tungsten filament lamps, which may be used separately or in conjunction with one another. Fluorescent tubes give a high output of light per watt of electricity consumed, and their useful life is about 5,000 hours, or five times that of filament lamps. That means that there is less need to disturb the display because of lamp replacement.

Fluorescent tubes are available in six sizes and at the following ratings:— 1½ ft., 15 watts; 2 ft., 20 and 40 watts; 4 ft., 40 watts; 5 ft., 50 and 80 watts; 8 ft., 125 watts. The longest size is not in such general use as the others. The colour of a lamp or the appearance of a natural surface in its light does not indicate how coloured materials will respond. A warm white and a "de-luxe" warm white lamp may appear almost the same colour, but the latter has a much higher red content and therefore gives a warmer effect. Fluorescent tubes are supplied in six "near-white" colours, varying according to the amounts of red and blue

emitted. Colour-matching, daylight and white tubes are slightly hard and give a stimulating effect, while a warmer and more luxurious atmosphere is afforded by the tint from the warm white, de-luxe and natural types. Although the lighting from fluorescent tubes is diffuse, they have a low surface brightness and it is advisable to keep the bare tubes shielded from view.

Although cheaper than fluorescent tubes, filament lamps have a lower efficiency and are therefore more costly in operation. They also have a high degree of brightness, making them suitable for a concentration of light, but, it must be added, colour rendering properties are bad because of the large red content.

Where a window display consists of numerous bottles, jars and other containers, it is vital that lighting should be so applied that each item can be clearly seen. That can be accomplished by means of polished anodised aluminium or glass reflectors and by fluorescent or tungsten lamps in which the reflector is part of the lamp. Whichever type of lamp is used, the light should shine on to the goods from a different angle from that of the observer. That helps to show up the shape and form of the items to the best effect.



At left and at centre are examples of the Harlequin lighting fittings by Troughton & Young (Lighting), Ltd., and at right is a five-light pendant fitting by Courtney Pope (Electrical), Ltd. The fitting has five arms supporting white cord suspension. Metalwork is in polished brass but other finishes are available.

There are, of course, an infinite number of ways of obtaining striking and original effects, emphasising the size or showing up the materials of which the object is made. With lipsticks, for example, it might be possible to throw a directional light on to them so that their design and size could be shown up in magnified shadows on a white background.

As a rule, lighting fittings in the window should be kept out of sight or at least be made as inconspicuous as possible. When direct lighting is used, it is then all the more effective. Most pharmacies, although the trend is to open vision, have a closed-in back window, and main lighting can be mounted at the top of the screen behind any suitable baffle or pelmet.

Life and brilliance can be given to a display by a 150-watt mains-voltage reflector lamp. The fitting must be easily adjustable and capable of producing a relatively concentrated beam of light. If a special effect is desired, the concentrated light from a low-voltage spot lamp may be used, but that means using transformers. In most cases, however, results achieved more than make up for the additional cost.

Spotlights, to be most effective when emphasising some particular item (such as a make-up case or first-aid outfit), may have to be visible, and are therefore frequently designed to look neat and unobtrusive. A useful spotlight of that type is a 75-watt reflector lamp in a fitting that may be stood in full view and near the object.

It is often possible to enhance particular displays with other forms of local lighting. Clip-on shelf lighting units using either tubular filament lamps or fluorescent tubes can add to variety. If you want your lighting to be flexible, the main essential is to make sure that there are plenty of easily accessible socket outlets.

Since conditions of shop-window lighting are bound to vary with the size, shape, etc., of individual premises, it is extremely difficult to give a precise figure for costing. Without the price of installation, a reasonable figure for lighting a window with fluorescent tubes would be between £2 and £5 per foot of window or from £3 to £4 if tungsten lamps were used. Running costs naturally vary with the charge for electricity.

If the basis of loading per foot of window is taken as 40 watts for fluorescent and 150 watts for tungsten, the cost per foot, expressed as a percentage charge per unit, would be 5 and 15 per cent. respectively. One foot of window lit by fluorescent can be operated for twenty hours for the price of one unit and by tungsten for six and two-thirds hours.

Some Suppliers and Their Products

Inside the shop, illuminated ceiling panels can focus attention on certain areas or be used to make a room look higher, while a suspended ceiling of acoustic tiles with recessed and surface mountings can have a reverse effect. In that range, the Isora illuminated ceiling consists of a galvanised mild steel framework, normally based on a 3 ft. 4 in. grid, supporting translucent p.v.c. panels. Cost is approximately 6s. 6d. per sq. ft., complete. Full details may be obtained from Isora Illuminated Ceilings, Bedford Avenue, Slough, Bucks.

Pleasing decorative effects combined with good lighting have been the idea behind the Harlequin range of pendant light fittings made by Troughton & Young (Lighting), Ltd. 143 Knightsbridge, London, S.W.1. Styles range from a single pendant costing £2 9s. 10d. to a six-lamp assembly at £16 6s. 5d.

A high degree of standardisation of components makes the "New-Range" of light fittings from Crompton Parkinson, Ltd., Crompton House, Aldwych, London, W.C.2, of particular interest. Constructed from single-piece channels the fittings also have reflectors which are unbroken in length, giving a neat overall appearance. Sizes include 8 ft lengths. The Pacemaker range of strip lighting incorporates as basic elements either one or two lamp strips for 4-ft. or 5-ft. bi-pin cap tubes. Commercial fittings are available which have a frame with either tapered or diabolo-shaped sides and a variety of diffusers.

Fluorescent tubes and Gecoray silvered-glass reflectors made by General Electric Co., Ltd., Magnet House, Kingsway, London, W.C.2, provide well-blended lighting. A comprehensive range of the company's fluorescent fittings, reflector units, spotlights, recessed and semi-recessed units is described in a 24-p. illustrated brochure. The company also issues publications covering the G.E.C 101 range of fluorescent fittings and the Paragon series, based on the Osram 80 watts pack.

Every type of fluorescent tube, filament lamp, reflector spotlight and light fitting can be chosen from the comprehensive range available from A.E.I. Lamp and Lighting Co., Ltd., Melton Road, Leicester. In addition to a 24-p. illustrated catalogue devoted to shop lighting and display

he company also publish a useful reference work ("Shop ighting Handbook" (32-pp., pocket size)) which gives rules" of display lighting, window-lighting techniques and hop interior lighting, together with notes on equipment nd tables of lighting data, including types of window light-ig suitable for particular trades.

Other contemporary light fittings include the Olympus ange of both ceiling and suspension models made by Falk tadelmann & Co., Ltd., 91 Farringdon Road, London, E.C.1.

Among shop-lighting specialists are Courtney Pope (Elec-rical), Ltd., Amhurst Park, London, N.15, who provide oth individual spot, fluorescent and filament lamps and riteGlo ceilings. It is also useful to know that the ritish Lighting Council, Brettenham House, Lancaster Place, London, W.C.2, is always willing to give advice and ssistance.

The importance of good lighting should not be under-stimated and just as you strive for individuality in other spects of your trading, you can achieve individuality vith lighting if you are prepared, initially, to spend time nd money on devising the best possible scheme for your premises. And the cost need not be prohibitive.

General Points

A fair pre-1940 standard of lighting was obtained with bout 100 watts (filament-type lamps) in silvered-glass re-lectors per ft. of window frontage. Something better and nore dynamic is now required. A good present-day stan-lard for a 12 ft. closed-back window is 600 watts of appro-priate high-lighting plus a basic installation at least as good s one of the following three typical alternatives: Eight 0-watt fluorescent tubes in suitable fittings; three 125-watt olour-corrected mercury lamps each associated with two 00-watt filament lamps, all in mirrored reflectors; twelve 00-watt or eight 150-watt filament lamps in mirrored re-lectors. All those are for main shopping streets of medium owns. Less may be acceptable in suburban areas; much nore would be needed for shopping centres of cities.

Without highlighting, the three alternatives just given night tend to give a flat effect despite the fair amount of light in the window. Therefore, highlighting and emphasis lighting must have real "punch" to be noticeable and to produce dramatic appeal. Low-voltage types of highlight-ing equipment give a greater concentration of light than the equivalent mains-voltage types. The more light there is in a window, the lighter the colour of the display and the lighter the background, the less will window gazers be hampered by unwanted reflections in the glass.

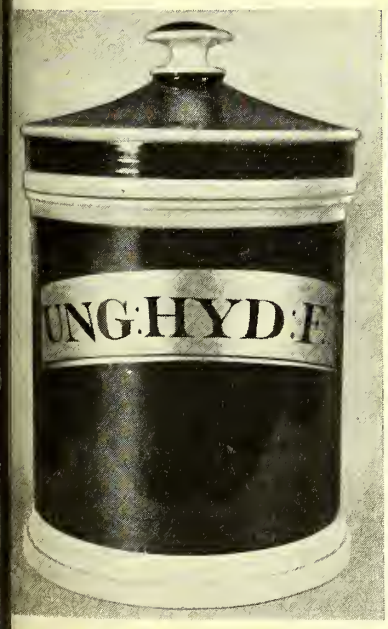
A lighted background is often the making of a display whether the light used is white or coloured. Coloured light in a window is wonderfully attractive, but should be kept off the display and on the background. Coloured fluorescent tubes in red, blue, green, pink, yellow, or gold, give col-oured light far more cheaply than filament lamps with coloured filters. Light up the display in front with white light, controlled to keep it off the background.

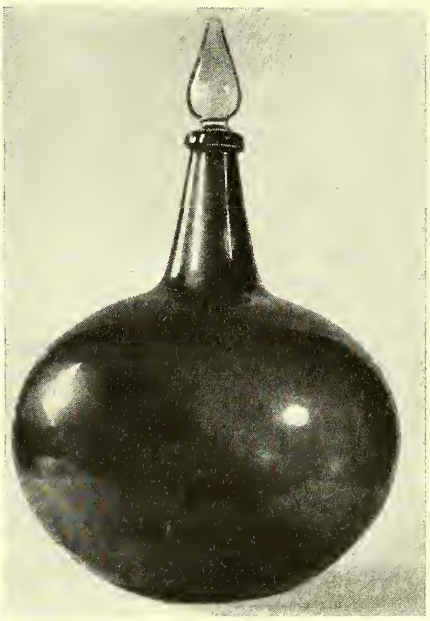
Open-back windows are viewed from outside and inside the shop, and lamp concealment must be carefully thought out. In daytime the shop as seen from the street will look gloomy unless exceptionally well lighted. Interior fittings must be chosen for their appearance from the street as well as for their effectiveness inside the shop.

Once inside, the customer must see what the shopkeeper wants him to see, as well as what he came in for. Appro-priate lighting combined with good display is more than half the battle. Suppose a shop interior is 25 ft. x 40 ft.= 1,000 sq. ft. The least total wattage that should be installed is double that figure, 2,000 watts. Except in those instances where a luminous ceiling is used (ideal for many open types of display) a good plan is to use about half the total for general lighting preferably located over the counters, and the remainder for empasis lighting on displays. In that case, the total wattage might be split into six double-lamp fluores-cent fittings (960 watts) for general lighting, plus seven 150-watt shoplamps (1,050 watts). Fluorescent alone will not in general give sufficient sparkle or glint from glossy material. Always avoid allowing customers to look into highlighting equipment "from the wrong side," or by re-flection from counter-tops, etc. Louvres help in one case; careful placing in the other.

YESTERDAY'S COMMONPLACES

Collectors' pieces of today





Left: A drug jar of deep blue and white earthenware with gold inscription. Centre: Leech jar of earthenware with deep blue and gold decoration and inscription. Right: Bottle about 20 in. high (stopper not original) once used for holding lime water; now the kind of pharmaceutical bygone sought by interior decorators to convert into table lampholders.

"OPEN SHOP"

AN UNSCRIPTED COMMENTARY ON THE SPECIAL PROBLEMS OF THE PHARMACIST IN RETAIL PRACTICE

E. C. TENNER

A RATHER fuller report of a Pharmaceutical Council discussion than is usually released to us was recently presented for our perusal. The subject was the type of practical training to be required to satisfy the examination regulations. Opinions expressed by six named members of the Council were set out for us to study. That part of the Council report was most enlightening, and was probably read widely and with interest, whereas the purely factual and colourless account of decisions taken by the Council, which completed the story of the meeting, was probably skipped by many. One was not surprised to read that

> "Mr. Jackson said that, in the general practice of pharmacy today, dispensing was taking on more and more of a routine character, and was not so great a problem as in the past. More importance should now be attached to the Society's view of the future function of the pharmacist as adviser to the medical profession on the action and uses of drugs, in which the pharmacist's academic knowledge was of greater significance."

One was not surprised because, over the years, one has been accustomed to that sort of *waffle* about the practice of pharmacy. In the practice of pharmacy, dispensing has always been strict routine. It is certainly not more so now than at any other previous time. Says the Concise Oxford Dictionary:—"Routine: Regular course of procedure, unvarying performance of certain acts." The practice of medicine is a routine. The practice of the law, teaching, building or engine driving—those must equally be recognised as routines. It is only in research work or interpretation that one seems to get away from routine and then really one is only giving up one routine for another. It is necessary to point out to Mr. Jackson that the only change dispensing is undergoing is in the acts that make up the routine. There was a time when it was a routine to gather digitalis leaves and make one's own tincture; there was a time when plaster irons were regularly used; a generation ago the pill machine was bright and polished with use and so were the suppository mould and the cachet machine. It would seem that it was those old routine acts that Mr. Jackson found to be a greater problem than he now finds the modern routine acts: keeping track of every latest modern presentation, of every latest modern drug in each of its half-dozen names, correctly deciphering "puzzle corner" prescriptions for them; remembering drugs with similar names but dangerously different properties, dealing in fractions of milligrams instead of grains, to say nothing of advising the prescriber about what he requires. One wonders how anybody could possibly find the modern routine easier than the old one. Only compare the British Pharmacopœia of 1914 with that of 1958. Just imagine what is actually involved in the responsible supervision of dispensing a hundred prescriptions today. The volume of dispensing is greater than ever before, and it still has its content of problems that are just as vital as ever they were. If Mr. Jackson really found them not so great as in the past he would be a better man than any of us—and of course he isn't. What Mr. Jackson is doing is mistaking the trees for the wood. The shapes of the trees are changing but the shape of the wood remains the same. Members of Council really should not fall into such error. When they do it is right and proper that it should be reported to us. Again, for years we have heard much lofty talk of the function of pharmacists as advisers to the medical profession on the action and uses of drugs. Mr. Jackson referred to that function: as for the extent to which it is utilised we a have our own experience to judge from. Most pharmacis ring up doctors about prescriptions several times a week. O of a hundred doctors, four or five will trouble to consult pharmacist about the use of a drug, and that is that. A fun tion we do not hear enough about from members of Counc or from the officers of the Society or of our other organis tions, is the main public function on which we base our exi tence: that of protecting the public from harm. If t education policy of the Society enables us to be equipped run our pharmacies in a manner adequate to that main pu pose, the other subsidiary functions will be easily achieve But don't let any of us be kidded by Mr. Jackson that th main purpose grows easier to carry out. The exact opposi is the case.

This year the British Pharmaceutical Conference meeti is being held earlier than last. I have heard several pharm cists express regret that the earlier date is impossible for the because they would not wish to leave their businesses, assur ing they could find a locum at that time, before the bu summer holiday season ends. A date after the middle of Se tember is not popular with the teaching fraternity of pharm cists, as the autumn term generally begins in mid-Septemb consequently the normal date for Conference meetings early September. It is, however, just as important for tho in retail practice to attend Conference meetings as for tho in teaching practice, and one is always hoping that, fro year to year, there may be alternation between early a late September or at least between early and mid. Thinki about those dates suggests another thought. Why could n the teaching profession arrange its affairs so that the e of the teaching year came in December? The Decemb examinations would then be the main ones of the ye Summer is really the worst time of the year at which to examinations and, if the year ended in December — t logical time—much more staggering of holidays could accomplished, and perhaps the Conference meeting could held at a time that would not clash with the holiday seaso

I am told the moving showsign for one of the proprieta travel-sickness remedies was designed to be absolutely re able and *fool-proof*. Indeed I believe it is, because worked non-stop for six weeks on my counter. For all tho weeks it has defied the prods of little boys' fingers slowi down the works—but the other day I overheard a juveni telling another in the shop: "I've found another way stop the Mxxxxxe wheel." Indeed he had—and try as I c to make it move it remains stationary. That only shows th the modern child is no fool!

A PHARMACIST'S ANTHOLOGY

ARSENIC'S THE STUFF

From *Pietro of Abano* by Robert Browning

PETER *has the secret! Fair and Good are products*
(So he said) of Foul and Evil: one must bring to pass the
othe
Just as poisons grow drugs, steal through sundry odd duct
Doctors name, and ultimately issue safe and changed.
You'd abolish poisons, treat disease with dainties
Such as suit the sound and sane? With all
Such kickshaws vain you pother!
Arsenic's the stuff puts force into the faint eyes,
Opium sets the brain to rights—by cark and care derange

The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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Whose "Prevailing Distortions"?

In literary circles in Britain the name of Edward Lear is so widely associated with nonsense that a collection of his works bears the title "A Complete Book of Nonsense." The present American correspondent of the *New Scientist* is John Lear. What he wrote under the title "Towards Drug Law Reform" in that paper's August 11 issue is not, of course, complete nonsense. Some of it, however, will scarcely appeal to those engaged in pharmaceutical manufacture or distribution as representing hard sense. The American correspondent is arguing in favour of generic names being compulsorily used in place of proprietary names on medical prescriptions. That is a valid and well recognised point of view which he is, of course, entirely entitled to espouse and to advocate. But in providing an example to illustrate his point he should really choose something that puts less strain on the credence of informed readers.

"One of the two stated purposes," he writes, ". . . is to simplify drug names. I have explained . . . how patented drug names have been used to confuse doctors in the writing of prescriptions. I shall repeat myself here briefly for the sake of clarity, taking baked beans as an example. Among the companies marketing baked beans are Heinz and Campbell. The company brand name is used in an adjectival sense to describe the beans. The grocer who advertises Heinz beans, for example, is telling the consumer what the can contains and who made it. Drug makers do it differently, using two sets of names: one the company name and the other an invented name for the product. If baked beans were sold in this same way the housewife would have to remember anagrams of beans such as Sneabs or Nabes or maybe trick names like Lo Cals or Hi Pros, and she would furthermore have to remember 300 to 500 such new names every year."

The implication is that in America there are in the food trade no Oxos or Bovrils or Horlicks' whose manufacturers are wicked (?) enough to persuade people to buy their goods by those "trick" names, instead of by the name of a maker used adjectivally in front of the plain substance (whatever that is). But is the writer's beans example applicable to modern drugs? Everybody knows what beans are and nobody invented them, though the varieties have been improved by human effort. Everybody knows what soup is, and nobody—at least nobody alive today—invented it. A manufacturer could quite legitimately market the beans or the soup under a coined name, even a noun, without being thought a rogue. Indeed he would be deceiving nobody, for everybody would recognise the product as soup whatever it was called. There is a parallel with most simple drugs. Bicarbonate of soda and powdered rhubarb are bought either unbranded or with a maker's name used adjectivally. In this respect the drug trade is at an advance over the food industry, since the housewife can buy her calamine lotion, B.P. (or U.S.P.) with complete confidence, but she would be rash to buy "tomato soup," however correctly labelled, without a maker's name in front. Against that, most modern complex synthetic drugs embody a more or less large element of invention. Being new they have to be given a name that itself has to be invented. After a time lag the new compound or substance may be given a generic name, and eventually, after the lapse of the original patents, if any, it may become procurable as somebody's brand of the generic name. That is a system based on the laws of patents and trade marks and intended to provide rewards for, and so encourage, inventions for the benefit of mankind. It is not perfect and is capable of being exploited, but if it is wrong then it should be attacked as a system, whether operated by drug manufacturers, food manufacturers, detergent manufacturers or anybody else, Let us, please, do without such loaded pejorative language as "duped by drug salesman" or such unsubstantiated accusations as "advertisements have contributed to . . unnecessary suffering and sometimes death for drug users." Even if that were true, would the situation have been much improved if the drug had been purveyed as Smith's brand of, say, phenoxymethyl penicillin?

By all means let publicists campaign for a more widespread use of generic names. But do let us have a rather more sober and realistic appraisal of what the advantages of that policy will be, both in kind and in extent.

Quick Step

Our purpose is deciding on the structure of the Chemist and Druggist Quarterly Price List and its Satellite Cumulative List of Amendments was to provide a service by which the chemist could, by reference to no more than two sources, find the price of any proprietary item on his shelves or counter. Acting on the hymn-writers' advice—"Dare to have a purpose true and ever make it known"—we have consistently made our objective known. Now, at the instance of a number of users, we have decided to make a slight—a very slight—inroad into that principle. Although in each weekly Cumulative List we have been picking out new entries with a black blob (●) and upward and downward price changes with an "*A*" or "*R*," some users of the list have still, apparently, been exasperated at having to pick out those items, sparsely sprinkled as they were over perhaps six or seven pages of list. To ease their path we are, as from this week, grouping together at the end of the Cumulative List all those new entries or changes that are being given for the first time; in the next week they will be absorbed into the main body of the list. The routine for finding a price will therefore be a three-step instead of a two-step procedure:—

1. Look at the end of the Cumulative List of Amendments for the changes of the week. If the required item is not there,
2. Look in the Cumulative List in case of changes since the Quarterly Price List appeared. Finally
3. Look in the Quarterly List.

DRUGS AND THE MIND

S. J. HOPKINS, F.P.S.

THE desire to escape from environmental stress is as old as the human race. From the earliest times drink, food, clothing and shelter have been used to reduce that stress in attempts to come to terms with the immediate surroundings, and those habits are now so sanctioned by custom, convention and tradition that they are rarely recognised as escape devices.

In recent years, however, a new awareness of the importance of mental reactions to environmental stress has occurred. Although we live in a more physically comfortable world, the intangible pressures and stresses of modern society are more threatening to the security of the individual than ever in the past. We appear to have created a social environment that many cannot endure without the aid of drugs, and it is hardly surprising, therefore, that anxiety, depression and mental illness are of increasing social importance.

Stress can, however, arise from endogenous biochemical disturbances as well as from exogenous environmental factors. The significance of that fact was not recognised for many years, mainly because the fantastically complex biochemical mechanisms that underlie the expression or suppression of emotions, attitudes, dreams, and unconscious desires were not appreciated. The brain is a synthesising as well as a controlling organ, and various neuro-regulatory substances are built up and incorporated into its tissue systems. It is well known that certain areas of the brain are associated with specific functions, and similar considerations may be concerned with certain behaviour. Changes in the nature or concentration of neuro-regulatory compounds may thus influence the functioning of the central nervous system.

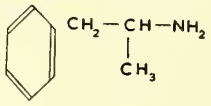
It is now known, too, that biochemical factors outside the central nervous system also cause brain dysfunction. The standard example is phenylpyruvic oligophrenia, in which the excretion of phenylpyruvic acid in the urine is associated with mental retardation. That acid is derived from phenylalanine, which is normally metabolised to tryptophane by a specific enzyme present in the liver. In the absence of the enzyme, the normal metabolic pathway is blocked, causing a rise in the phenylalanine level in the blood and eventual mental retardation.

With that wider knowledge, the protean origins of mental illnesses and their importance to the community as well as to the individual are now appreciated, and that new approach is perhaps not unrelated to the increasing availability of therapeutically active drugs.

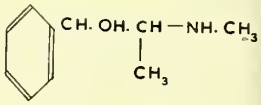
Stimulants

The treatment of depression is not always easy; and it must not be forgotten that some mental disturbances are natural reactions to external events, such as the depression that follows bereavement. In normal circumstances such secondary depressions are self-limiting as the lost psychic energy is replaced, and the individual becomes adjusted to the changed conditions. In other circumstances depression may occur because psychic energy is locked up in a neurotic complex and cannot be usefully employed. The relief of depression by sedatives may be explained as a release of such imprisoned energy.

Depression, however, does not always yield to sedatives, and treatment was often unsatisfactory until the introduction of the amphetamines and associated drugs. The amphe amines are related to ephedrine, and their use as centr stimulants springs from the well known fact that asthmati taking ephedrine sometimes experience mild insomni Amphetamine (1), as indicated by its structural formula, di



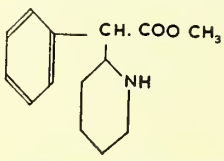
1. Amphetamine



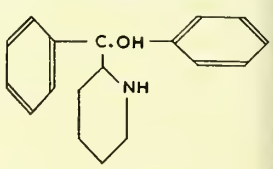
2. Ephedrine

fers from ephedrine (2) by the absence of an hydroxyl grou and of a methyl group on the nitrogen. That change in stru ture is associated with a marked increase in activity and reduction in dose. Dextroamphetamine is similar but mo active, and methylamphetamine has a more rapid and su tained action.

Drugs of that type are chiefly of value in the treatme of the milder types of reactive or environmental depressi but, unless the dose is carefully adjusted, they may cause a over-stimulation. As the effect of the drug wears off, th may give rise to a rebound depression, which may be mo severe than the original. Some newer drugs, such as methy

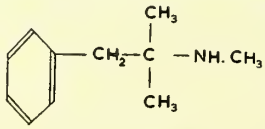


3. Methyl phenidate



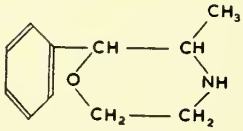
4. Pipradrol

phenidate (3) (Ritalin) and pipradrol (4) (Meratran) are le powerful; they appear to have an activity intermedia between those of caffeine and amphetamine. Overstimul tion is less likely, and the general effect is smoother ar less intense; pipradol has the advantage of a prolong action. Those compounds differ in structure from the an phetamines, as the graphic formulæ indicate, but in mephe termine (5) (Mephine) a return has been made to the origin

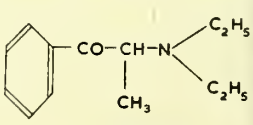


5. Mephentermine

ephedrine-type structure. The appetite-depressant actio of the amphetamines is well known, but in the treatment obesity the central stimulant action may be undesirabl



6. Phenmetrazine



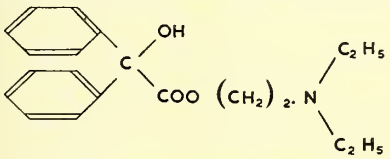
7. Diethylpropion

Phenmetrazine (6) (Preludin) and diethylpropion (7) (Tenu ate) are derivatives with appetite-depressant properties assc ciated with reduced stimulant effects.

Tranquillisers

Many mental disturbances fail to respond adequately to sedatives or stimulants, and the term tranquilliser has been used generically to describe the action of a diverse group of substances of varying chemical structure. Drugs of this type are not sedatives, but produce, or tend to produce, a calm untroubled state of mind, in which agitation, anxiety and tension are relaxed, and in which personal problems can be examined more objectively. The more powerful compounds are also invaluable in the treatment of more severe conditions such as schizophrenia and manic states, and their introduction has resulted in fundamental changes in the treatment of major psychiatric disorders. The less powerful drugs are used in the treatment of anxiety states and psychoneurotic conditions.

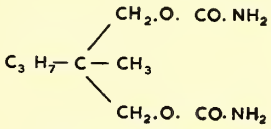
BENACTYZINE: This compound 2-diethylaminoethyl benzilate hydrochloride (8) is chemically related to the antihista-



8. 2-Diethylaminoethyl benzilate

mine diphenhydramine. In agitated and anxious patients it initiates a sense of detachment from the environment that may be of considerable therapeutic value; in full doses it produces a degree of thought blocking in which patients give rational answers to questions but have difficulty in expressing a train of thought. Benactyzine also has some anticholinergic properties, and some of its side effects, such as dryness of the mouth, are associated with its atropine-like properties. The use of benactyzine is declining with the advent of newer compounds.

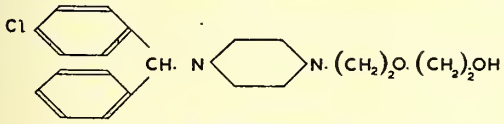
MEPROBAMATE: 2-Methyl-2-n-propyl-1, 3-propanediol dicarbamate (9). This has some chemical relationship with mephen-



9. 2-Methyl-2-n-propyl-1, 3-propanediol dicarbamate

esin, and possesses both muscle-relaxant and anti-depressant properties. It is useful in tension and anxiety states, where its mild hypnotic action coupled with its other effects induces a natural, relaxed sleep. Acute psychoses do not respond well.

HYDROXYZINE: Marketed as Atarax, this compound (10), like benactyzine, is related to an antihistamine, namely chlor-

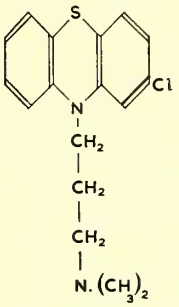


10. Hydroxyzine

cyclizine. It is therefore a piperazine derivative. Therapeutically it is employed in the milder psychoses, and its antihistaminic properties are also of value in the treatment of dermatoses associated with emotional tension.

AZACYCLONOL: α-Diphenylpiperid-4-yl-methanol hydrochloride (Frenquel). This compound has the power of inhibiting the hallucinations caused by the administration of lysergic acid and mescaline—hallucinations that are similar to those associated with some forms of schizophrenia. It was hoped that, by research with mescaline-like drugs, a specific antagonist would be found. Azacyclonol has some useful therapeutic applications in that way, and has been used in a number of schizophrenic states and in alcoholic, senile and post-operative confusional states. In psychoses, the best results were obtained with patients who were previously well adjusted, and were not antagonistic in behaviour. Further research may result in the synthesis of compounds with a more specific anti-hallucinatory action.

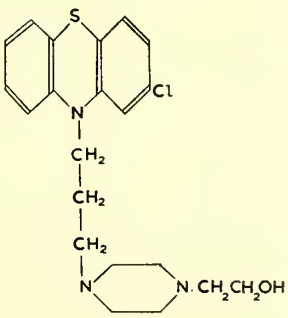
It is of some interest to note that the substance is isomeric with pipradrol, which is the 2-yl-methonal derivative. The small change in structure produces considerable changes in activity, as pipradrol has stimulating properties similar to, but not identical with, those of the amphetamines.



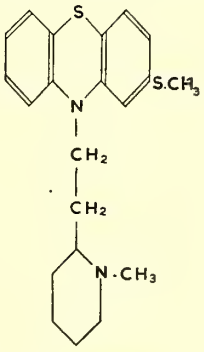
11. Chlorpromazine

CHLORPROMAZINE: This phenothiazine derivative (11) is one of the most remarkable drugs available, and its introduction led directly to a wide investigation into its unusual properties, as well as sparking off new lines of research. The compound is chemically related to the antihistamine promethazine, and itself has a mild antihistamine action, but from the psychiatric point of view the drug is important in the treatment of anxiety, tension and agitation in psychoses and psychoneuroses. Its introduction brought about a quiet revolution in mental hospitals, as disturbed, hostile or antagonistic patients became much more tranquil and cooperative during chlorpromazine therapy. That calming effect is achieved without any clouding of consciousness, and patients become more amenable to treatment generally. Chlorpromazine is therefore a powerful drug very different in class from the minor tranquillisers already described. Some side effects may be expected, of which the most serious are agranulocytosis and, more commonly, jaundice. The latter disappears when treatment is stopped, and early cases of agranulocytosis usually recover if the drug is withdrawn at once. Any sudden onset of sore throat during chlorpromazine therapy is a sign of incipient blood dyscrasia, and requires immediate cessation of therapy.

Chlorpromazine appears to exert its transquillising effect by blocking the action of noradrenaline present in brain tissue. The mechanism is complex, and is referred to in more detail under reserpine. Other related phenothiazine derivatives include promazine (Sparine), pecazine (Pacatal), acetyl promazine (Notensil), perphenazine (12) (Fentazin),



12. Perphenazine

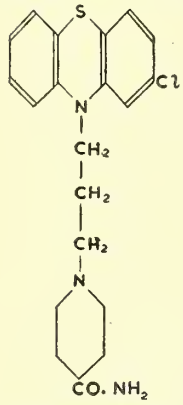


13. Thioridazine

and thioridazine (13) (Melleril). All those compounds have a large cyclic moiety joined by an alkyl chain to a nitrogenous group. The group may be a substituted amine, as in chlorpromazine, or a nitrogen ring, as in perphenazine. Basically similar structures may be found in certain anti-

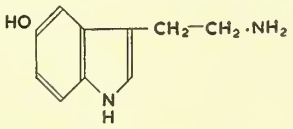
histamines and in synthetic atropine-like compounds, and certain minor actions of the tranquillisers may be traced to those similarities of structure.

The phenothiazine derivatives referred to have a generally similar action, and the influence of different substituents is reflected in changes in dose and in modification of secondary effects. Thus in perphenazine, where hydroxyethyl piperazine replaces the dimethylamino group, the potency is markedly increased, and the dose is reduced to the order of 2–4 mgm. In thioridazine, one of the newer compounds, the side chain is N-methyl-piperidyl ethane, and the structural change is accompanied by an increased specificity of action and virtual freedom from side effects. Thus the anti-emetic properties common to most of those derivatives are almost absent in thioridazine, and the compound does not potentiate the action of anæsthetics, or affect body temperature. The dosage range is comparable in general with that of chlorpromazine, but even in full doses the parkinsonism and tremor produced by the older compounds is rarely observed and other side effects, such as liver damage, jaundice or agranulocytosis, are yet to be reported. In pipamazine (14) (Mornidine) the reverse has been achieved, as the product is purely anti-emetic in action.



14. Pipamazine

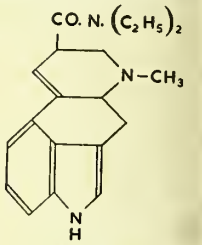
RESERPINE: This alkaloid from *Rauwolfia serpentina* has both sedative and hypotensive properties of an unusual character. Unlike the effect of promazine derivatives, the onset of action of reserpine is slow, and the full effect may not be obtained for several days. The drug reduces psychomotor activity and tension by an action on the brain stem, particularly the hypothalamus. Barbiturates, on the other hand, achieve their sedative effects by an action on the cerebral cortex, an action that may be increased by reserpine. Further explanation is not easy, as the complex functions of the brain cannot yet be fully described in biochemical terms, but the discovery of two important neurohormonal substances in mammalian brain has indicated new lines of research. Those substances, nor-adrenaline and serotonin (15) or 5 HT, are monoamines, but their distribution in



15. Serotonin

brain tissue is irregular. They are largely localised in certain parts of the brain, particularly the hypothalamus, and are now regarded as neurohormones concerned with the transmission of impulses to various brain centres. Evidence available so far indicates that nor-adrenaline has ergotrophic effects on one part of the brain, increasing response to emotional and sensory stimuli, whereas serotonin has the opposite action on another part. In the hypothalamus those amines are stored in a bound, inactive form, from which they are released in an active state by the appropriate nerve impulses, and are subsequently inactivated by the enzyme monoamine oxidase. Reserpine is believed to affect the mechanism by which serotonin is normally stored in the hypothalamus, possibly by occupying the serotonin receptor sites. Production of serotonin continues, so the brain concentration tends to rise, with a general lowering of cerebral activity, a reduction of blood pressure, and a decreased response to stimuli. The promazine compounds appear to achieve basically similar effects by the reverse action of depressing the ergotrophic response to noradrenaline, and are not concerned with the release of serotonin (5-hydroxytryptamine). Thus reserpine can be regarded as an antimetabolite of serotonin, as both compounds have an indole structure.

The hallucinations characteristic of schizophrenia have also been ascribed to serotonin. Thus lysergic acid diethylamide (LSD (16)), which also possesses an indole moiety, produces hallucinations and other forms of cerebral aberration similar to those of schizophrenia and to those produced by mescaline. It was hoped that that means of producing hallucinations might lead to the synthesis of some specific anti-hallucinogens. Although some success has been achieved, the work has also shown that LSD can antagonise the action of serotonin. The hallucinogenic effects of LSD are due to an inhibition of serotonin in the brain, and the reason why serotonin itself does not cause hallucinations when given in a similar way may be that it cannot pass from the blood into the brain. Other compounds may have a similar action. That chemical concept of the cause of schizophrenia runs counter to the observation that the disease appears to be determined genetically. The two ideas are not irreconcilable. Schizophrenia results from conditions of severe stress, and a metabolic fault, which might not be apparent in ordinary circumstances, could then lead to the production of a toxic substance, either hallucinogenic or serotonin-inhibiting. The production of such a substance might be self-perpetuating, and might affect metabolic processes in such a way that, when the original precipitating stress was removed, a return to normal cerebral metabolism would be impossible. The similarity in structure between mescaline and adrenaline, and the fact that adrenochrome, an oxidised form of adrenaline, can also cause hallucinations, are indications that some biochemical disorder may be the cause of schizophrenia, and it has also been stated that an hallucinogen can be isolated from the blood of schizophrenic patients. The whole subject is one of immense potentialities, and further research should be rewarding. An idea of its complexity is given by the fact that acetylcholine has anti-depressant properties. That effect is not apparent when the drug is administered in the ordinary way, partly because it is rapidly broken down in the body by the enzyme cholinesterase, and partly because it does not cross the blood-brain barrier. If 2-dimethylaminoethanol (available as the p-acetamido-benzoate as Deaner) is given, conversion of that to acetylcholine occurs in the brain itself. Diffusion problems are thus side-tracked. Although the compound is slow in acting, it has clinical possibilities.



16. Lysergic acid diethylamide

Antidepressants

Severe depression is a therapeutic problem, and for a long time electro-convulsion therapy offered the most favourable chance of improvement. The treatment, however, has certain decisive disadvantages, and it is only recently that chemotherapeutic research has opened up new possibilities. Reference was made under reserpine to the existence in the hypothalamus of the amines serotonin and nor-adrenaline.

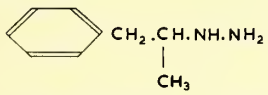
Also present in the hypothalamus is an enzyme, monoamine oxidase, which soon destroys the free amines, thus limiting their action. That enzyme thus appears to maintain a balance between the endogenous amines and so control various cerebral activities. Any suppression of that enzyme activity would permit the brain concentration of free serotonin and nor-adrenaline to rise.

A hint that a therapeutic effect might be obtained by the use of an inhibitor of monoamine oxidase was noted when isoniazid was introduced for the treatment of tuberculosis. Some patients receiving the drug experienced a definite euphoria, and that was even more marked with the

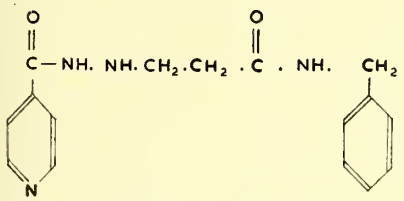
later-introduced isopropyl derivative. In the large doses necessary for the treatment of tuberculosis that euphoric effect proved a disadvantage, and the use of isopropyl isoniazid (iproniazid) in tuberculosis has been virtually abandoned.

Furthermore iproniazid has a general suppressive action on monoamine oxidase in other organs, particularly the liver. Here the enzyme is essential for normal hepatic function, and its inhibition, if prolonged, leads to liver damage and hepatic dysfunction.

A search was therefore made for a compound that would effectually inhibit monoamine oxidase at the levels present in the brain, but would not interfere to any extent with similar enzyme systems elsewhere. Compounds of that type are represented by β-phenyl-isopropyl hydrazine (17) (Cavo-

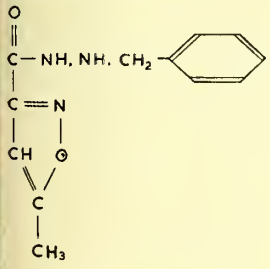


17. β-Phenyl-isopropyl hydrazine

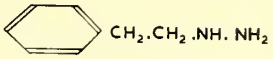


18. N-isonicotinyl-N′(β-N-benzylcarboxamidoethyl) hydrazine

dil) and N-isonicotinyl-N′-(β-N-benzylcarboxamidoethyl) hydrazine (18) (nialamide or Niamid). Clear relationships exist between the former and amphetamine and isoniazid; nialamide represents a new type of hydrazine derivative.



19. Isocarboxazid



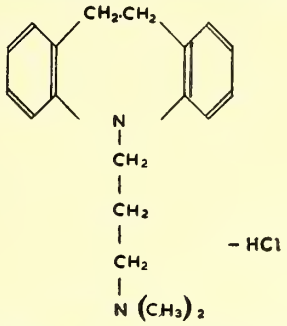
20. Phenelzine

Associated drugs include isocarboxazid (19) (Marplan) and phenelzine (Nardil) (20)

Those drugs have their main applications in the treatment of the various forms of endogenous depression. Cavodil is given in initial daily doses of 12 mgm.; with Niamid the dose ranges from 25–50 mgm. The effect is slow, but response is usually manifest in two weeks, and after that time the dose of Cavodil should be reduced to 6 mgm. daily, and less subsequently. With Niamid, the maximum response may not occur for three or four weeks, when the dose may be reduced to 15–30 mgm.; with Marplan, the initial daily dose is 30 mgm., subsequently reduced to 10–20 mgm. In every case the dose must finally be adjusted according to the degree of depression and the response to the drug.

Those compounds also have the useful property of potentiating the action of certain other drugs, such as the barbiturates. Niamid has in addition some analgesic action, and by enhancing the effect of narcotics it enables the dose of such drugs to be reduced in progressive organic conditions such as malignant disease, while its central effects also lessen tension and apprehension.

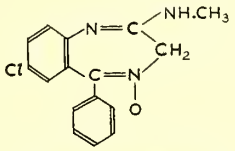
TOFRANIL: Further work on compounds related to chlorpromazine, or with analogous structure, has resulted in the synthesis and clinical use of N-(y-dimethylaminopropyl)-iminodibenzyl hydrochloride or imipramine. That substance has the following structure (21) and it will be noted that, whilst the side chain is identical with that of chlorpromazine, the two benzene rings of the nucleus are joined by a



21. N-(y-diethylaminopropyl) iminodibenzyl hydrochloride

methylene bridge and not a sulphur atom. Small as that difference is, it is enough to make a considerable difference in the pharmacological activity, as imipramine is almost entirely antidepressant and not tranquillising in action. The mechanisms linking those changes in structure with their differences in mental activity are obscure. In contrast with the iproniazid type of antidepressant the compound does not inhibit the action of amine oxidase and, unlike the amphetamines, it does not antagonise the action of reserpine. One pharmacological action of Tofranil that may have some bearing on its antidepressant action is the fact that it increases and prolongs the pressor activity of nor-adrenaline. The influence of nor-adrenaline on cerebral function, and the action of amine oxidase in affecting the level of nor-adrenaline in the brain, have already been alluded to. Tofranil might possibly have an antidepressant action by activating in some way part of that central amine mechanism. Central stimulants of the amphetamine type are related to the catecholamines, and a structure similar to that of adrenaline can be observed in the Tofranil formula. At present the different chemical aspects of anxiety and depression await a unifying hypothesis, but in the interim Tofranil marks a new advance, with its specific action on depressive states. The drug is given in doses of 25 mgm. three times a day, increased during the second week to 50 mgm. A full therapeutic response usually occurs in two to three weeks, when the dose is reduced in stages to a maintenance level.

A more recent introduction is 7-chloro-2-methylamino-5-phenyl-3H-1, 4 benzodiazapine 4-oxide (21), also known as methaminodiazepoxide, available as Librium. This compound is not related to other antidepressants, and lacks the autonomic-blocking action of reserpine and chlorpromazine, and the hypnotic effects of the barbiturates. It has a powerful tranquillising action, and is clinically of great value when anxiety or tension is also present. The rapid onset of action and the few side effects suggest that the drug will prove a valuable psychotherapeutic adjunct.



22. Methaminodiazepoxide

The discovery of substances that enable an affirmative to be given to Macbeth's famous question "Canst thou not minister to a mind diseased?" has completely altered the treatment of endogenous depression and other abnormal mental conditions. The potentialities of those advances are yet hardly realised, and the immense social, philosophical and ethical implications of such advances may in due time be recognised as a turning point in medical history. If mental disease is a matter of cerebral metabolism, then treatment is a problem of pharmacology, and a challenge to organic chemist, physician and pharmacologist alike.

CUMULATIVE LIST OF AMENDMENTS TO THE *C. & D.* Quarterly Price List, *June 1*

● THIS WEEK'S CHANGES ARE GIVEN SEPARATELY AT END

	2-Minute Magic (385 DG)		57	0	28	6	9	6
	636 (505 Gerard)							
	floral gift set	1956 C.L.F.	26	0	10	0½	4	0
		1957 C.L.F.	31	3	12	7	4	11
	Achromycin (746 Lederle)							
	capsules 50 mgm ..	25	10	10ea		..	16	3 TS
		100	40	6ea		..	60	9 TS
	250 mgm ..	16	29	0ea		..	43	6 TS
		100	174	2ea		..	261	3 TS
		1000	1682	4ea		..	2523	6 TS
	for ear solution							
	vial powder .. 50 mgm / vial diluent .. 10 cc		6	10ea		..	10	3 TS
	intramuscular vial	100 mgm	5	2ea		..	7	9 TS
	intravenous vial	100 mgm	4	8ea		..	7	0 TS
		250 mgm	9	8ea		..	14	6 TS
		500 mgm	17	6ea		..	26	3 TS
	ointment 3%	30 mgm ½ oz	4	6ea		..	6	9 TS
		1 oz	8	2ea		..	12	3 TS
	ointment ophthalmic 1%							
	10 mgm 6 × ⅛ oz tubes		6	10ea		..	10	3 TS
	ophthalmic powder							
	sterilised vial ..		5	6ea		..	6	3 TS
	for oral suspension							
	1·5 gm	1 oz	10	10ea		..	16	3 TS
	ophthalmic oil suspension 1% 10 gm/cc							
	dropper	6 cc	1	10ea		..	2	9 TS
	pediatric drops	10 cc	7	4ea		..	11	0 TS
	soluble tablets ..	100	40	6ea		..	60	9 TS
	syrup	2 oz	10	10ea		..	16	3 TS
		16 oz	78	0ea		..	117	0 TS
	tablets 50 mgm ..	25	10	10ea		..	16	3 TS
		100	40	6ea		..	60	9 TS
	250 mgm ..	16	29	0ea		..	43	6 TS
		100	174	2ea		..	261	3 TS
		1000	1682	4ea		..	2523	6 TS
	troches 15 mgm ..	25	4	2ea		..	6	3 TS
	Achromycin V (746 Lederle)							
	capsules 250 mgm ..	16	29	0ea		..	43	6 TS
		100	174	2ea		..	261	3 TS
		1000	1682	4ea		..	2523	6 TS
	50 mgm ..	25	10	10ea		..	16	3 TS
		100	40	6ea		..	60	9 TS
	pediatric drops	10 cc	7	4ea		..	11	0 TS
	syrup	2 oz	10	10ea		..	16	3 TS
		16 oz	78	0ea		..	117	0 TS
	Adcortyl-A (1176 Squibb)							
	spray	50 gm	10	4ea		..	15	6 TS
	Aldis (884 NB) beaded screen							
	"Square 40"		..	..		..	119	6
	"Square 50"		..	..		..	159	6
	Alfonal (29 Alfonal)							
	corn oil ..	½ gall	12	0ea		..	15	0
	sunflower seed oil	½ gall	18	9ea		..	25	0
Delete	Altex (339 CG) sanitary towels							
		D17						
		D16						
	Ambramycin (70 Aspro)							
	capsules 250 mgm ..	16	29	0ea		..		TS
		60	104	6ea		..		TS
		250	423	4ea		..		TS
	oral suspension 2·5%	60 mils	10	10ea		..		TS
	Amphedrex (195 Brook Parker)							
	tablets	25	9	0 ..		..	1	2 p1s4B
		1000	9	0ea		..	..	p1s4B
	Ampins (339 CG) for bee keepers							
	box of 3 No. 9B ..		5	0ea		..	6	3
	box of 5		8	0ea		..	10	0
	Andre Philippe (48 AP)							
	after shave lotion 4 oz	102	15	0	7	6	2	6
	after shave talc puffer	103	15	0	7	6	2	6
	Angettes (493 Gambles) tablets							
	vitamin A.C.D. ..		28	0 ..		..	3	6
	Ankle Vigger (608 Hinders)							
	ankle bandage No. 1	pair	81	0 ..		..	10	6
	X quality natural	pair	66	0 ..		..	6	6
Delete		No. 2						
Delete		No. 3						
	Ann French (655 ICC)							
	cleansing cream ..		15	9	7	11	2	6
	golden tan		18	0 ..	9	0	2	9
	Anthical (814 M&B)							
	cream	1 oz	20	0	5	0	2	11
	Anusol HC (1310 WW)							
	ointment ..	10 gm	90	0 ..		..		TS
	Apiella (450 Farthing)							
	clear skin lotion ..	6 oz	57	0	27	10	9	6
	vitaliser plus	2 oz	252	0	122	10	42	0
	Aprinox (147 Boots)							
	tablets 2·5 mgm ..	100	11	6ea		..	15	4
		500	52	0ea		..	69	4
	5 mgm ..	100	19	3ea		..	25	6
		500	92	9ea		..	123	6
	Artane (746 Lederle)							
	elixir	16 oz	9	10ea		..	14	9
	tablets 2 mgm ..	100	7	0ea		..	10	6
		1000	58	6ea		..	67	9
	5 mgm ..	100	14	0ea		..	21	0
		1000	116	2ea		..	174	3
	Asmaval (378 DCBL)							
	tablets	25	24	0 ..		..	3	0 p1s4B
		100	72	0 ..		..	9	0 p1s4B
	Aureomycin (340 C of GB) powder 2%							
	puffer 15 gm (vet) ..		66	0 ..		..		TSVPO
	ointment 3% ½ oz (vet)		42	6 ..		..		TSVPO
	ophthalmic ointment 1% ⅛oz(vet)		16	0 ..		..		TSVPO
	Ayrotabs (78 AS&Co) ..	50	40	0	10	0	6	4
	Ayrton (78 AS&Co) tablets							
	iron, vitamin and yeast (Ivy)		16	0 ..		..	2	0
	face cloths 'Smart Set'	301	18	0 ..		..	2	6
	hot water bottle The Argosy		52	0 ..		..	6	6
Delete	scissors toe nail Edgware		..	..		..	..	
Delete		401	..	..		..	..	
Delete	tower display		..	..		..	..	
	Baghari (Piguet) (1201 Supervite)							
	perfume (atomiser) ..	⅓ oz	27	6	13	9	56	6
	Bandit (Piguet) (1201 Supervite)							
	perfume (atomiser) ..	⅓ oz	29	6	14	9	60	6
	Barnet (617 Holloway)							
	ladies brush sets Duette	A11	61	4	15	4	6	11
		A13	86	4	25	2	12	11
		A14	109	0	27	3	15	11
		A15	128	0	35	0	16	11
Delete		A16, A17	..	..	..	..	.	
	Annette	A29	61	4	15	4	6	11
		A30	102	0	25	6	14	11
	Juliette	A31	64	8	16	2	9	6
		A32	109	0	27	3	15	11
	Colette	A33	40	6	10	1½	5	11
	babies brush sets ..	A27	26	10	6	8½	3	11
		A28	33	8	8	5	4	11
	gents brush sets ..	A35	32	8	8	2	4	11
	Bartex (477 AF&B)							
	superlens clipovers ..		..	..		..	7	6
	superlens sunglasses ..		..	..		..	7	11
							12	9
							15	11
	Becosed (901 Norton)							
	elixir	16 oz	96	0 ..		..	..	†s1s4A
		80 oz	348	0 ..		..	..	†s1s4A
	Becosym (1074 Roche)							
	tablets	500	130	0 ..		..	16	3
	Bedeman (102 CB)							
	lemon cream shampoo		21	9	5	5½	1	0
			3 doz		3 doz			
	Benerva Compound (1074 Roche)							
	tablets	500	64	0 ..		..	8	0
		1000	108	0 ..		..	13	6
	Better Off (385 DG) tube							
	for the face		66	0	33	0	11	0
	for the legs		54	0	27	0	9	0
	Blotta (612 Hobson)							
	vegetable juice							
	carrot, beetroot, tomato		85	6 ..		..	9	6
	celery		89	3 ..		..	9	11
	Bisodol (655 ICC) powder		30	3	7	7	4	0
	tablets	30	15	2	3	10	2	0
		100	36	0	9	0	4	9
	Breck (1169 GS & S)							
	Elimin shampoo ..	4 oz	41	0	10	3	5	11
	hair set mlst aerosol	5½ oz	75	0	37	6	12	6
		16 oz	126	0	63	0	21	0
	Broxil (1393 BRL)							
	syrup	60 mils	222	0 ..		..	16	6 TS
	tablets 125 mgm ..	24	192	0 ..		..	24	0 TS
	250 mgm ..	24	352	0 ..		..	44	0 TS
Delete	125 mgm ..	12	..	..		..	..	
Delete	250 mgm ..	12	..	..		..	..	
	Buto (128 Biometica)							
	hair remover		13	6	6	9	2	3
	Calcipen-V (147 Boots)							
	125 mgm ..	60 mils	106	0 ..		..	13	3 TS
	Calypso (Piguet) (1201 Supervite)							
	perfume (atomiser) ..	⅓ oz	31	6	15	9	65	0
	Cambison (614 Hoechst) ointment (distributors 621 Horlicks)							
	0·25%	5 gm	40	0	9	9	5	10 TS
		20 gm	128	0	31	2	16	7 TS
	0·5%	5 gm	64	0	15	7	9	3½ TS
		20 gm	204	0	49	9	29	8 TS
	Camyna (969 Pfizer)							
	lotion	20 mils	4	0ea	1	0ea	7	0
	tincture ..	20 mils	4	3ea	1	0½ea	7	6
	Caphedrodine (211 Butler)							
		16 oz	174	0 ..		..	21	9
		80 oz	840	0 ..		..	105	0
Delete	Carbo-resin (413 Lilly) ..	1 lb						
	Carboxymethylcellulose (746 Lederle)							
	jelly 4·5% ..	15 cc	2	4ea		..	3	6
	Carters (1003 PP) little liver pills		9	7	2	5		4
			4 doz		4 doz			

Cascade (814 M&B)								
photographic wetting agent								
30 mils		36	0	..	..	4	6	
500 mils		120	0	..	..	15	0	
Censedal (814 M&B)								
tablets 200 mgm	.. 500	560	0	..	..	70	0	†s1s4A
Chanel (247 Chanel) soap, toilet		20	8	5	2	3	0	
bath		37	10	9	6	6	6	
Chase Biocel (327 WC)								
remove cleansing cream		49	6	24	9	6	3	
skin beauty cream ..		49	6	24	9	8	3	
moisturising cream ..		49	6	24	9	8	3	
hand cream		31	6	15	9	6	3	
Chesties (1215 Teasdale)	5 lb	2	1lb		7½lb	1	0	qtr
Chloromycetin (938 PD)								
capsules 0·025 gm	.. 500	546	8ea		..	620	0	TS
Choice (1388 Durazone)								
garden spray aerosol ..	6 oz	29	9	..	..	2	11	
Christmas in July (150 Bourjois)								
skin perfume		48	8	24	4	6	6	
perfume purse flacon ..		54	4	27	2	9	6	
presentation		111	6	55	9	19	6	
"Spray Mist"		100	0	50	0	17	6	
cologne stick		31	6	15	9	5	6	
toilet soap	3	39	6	9	10½	5	9	
bath cubes	6	26	0	13	0	4	6	
talcum		31	6	15	9	5	6	
Cologne		60	0	30	0	10	6	
Clearasil (1277 Vick) ..		30	10	7	8½	4	6	
Clinic (509 Gibbs)								
medicated shampoo sachets		4	5	1	1		7	
bottle		16	11	4	1½	2	3	
		30	1	7	4	4	0	
Clorevan (436 Evans)								
tablets 50 mg	100	17	4ea	4	4½ea	30	4	
Collo-Cal-D (324 Crookes)								
elixir	4 oz	44	0	..	..	5	6	
Collosol (324 Crookes)								
argentum with ephedrine	1 oz	20	0	5	0	2	11	
	½ oz	26	0	6	6	3	9½	
calamine cream	16 oz	186	0	46	6	24	6½	
lotion ..	4 oz	18	0	4	6	2	4½	
calcium ampoules 1 mil dp	6	40	0	..	..			
2 mils dp	6	68	0	..	..			
dp 15 mils		48	0	..	..			
dp 30 mils		80	0	..	..			
Delete iodine 0·2% ampoules 10 mils								
Delete 0·8% ampoules 10 mils								
Comba-Curler (888 Newey)		10	3	2	6¾	1	6	
Cortocaps (324 Crookes)								
capsules	12	36	0	..	..	4	6	TS
	250	380	0	..	..	47	6	TS
Coty (301 Coty)								
Delete slim pack refill 097R ..		28	0	13	8	5	0	
slim pack refill 099R ..		32	0	15	7	6	6	
Delete hand treatment cream	2 oz	28	0	13	8	4	9	
hand treatment cream	28T	29	0	14	2	6	0	
Delete instant cleanser ..	4 oz	46	0	22	5	6	0	
instant cleanser ..	343	50	0	24	5	8	6	
Delete perfumed hand lotion	4 oz	42	0	20	6	7	3	
perfumed hand lotion	068	43	6	21	3	7	6	
perfumed dusting powder	060	79	6	38	9	13	6	
Crescent (347 Dalmas)								
corn rings thin ..	12	13	8	..	..	1	7	
thick ..	12	16	0	..	..	1	10½	
bunion rings thin ..	6	13	8	..	..	1	7	
thick ..	6	16	0	..	..	1	10½	
Crookes (324 Crookes)								
lactic acid and procaine								
ampoules 5 mils dp	6	68	0	..	..	6	6	pl
10 mils dp	6	88	0	..	..	11	0	pl
stilboestrol and lactic acid								
pessaries 1 mgm ..	6	60	0	..	..	7	6	pls4B
5 mgm ..	6	72	0	..	..	9	0	pls4B
hexoestrol implants B vet C	25	20	0	..	..	2	6	pls4B
	100	58	0	..	..	7	3	pls4B
	1000	540	0	..	..	67	6	pls4B
Inj pituitary (post lobe)								
B vet C ..	15 mils	33	9	..	..	3	9	pls7
	30 mils	49	6	..	..	6	6	pls7
Inj stilboestrol dipropionate								
B vet C ..	15 mils	33	0	..	..	3	8	pls4B
	30 mils	54	0	..	..	6	0	pls4B
Delete zinc cream ..	.. 1 oz							
	16 oz							
Delete all transfusion solutions								
Cussons (388 Cussons)								
wild lavender skin								
perfume	5747	26	2	12	9	4	6	
soap	2158	9	6	2	3¾	1	3	
sparkling wild lavender								
bath cubes ..	5521	3	1	1	6		6	
Cycloserine with INH (413 Lilly)								
Pulvules	40	61	8ea		..	92	6	TS
	100	146	8ea		..	220	0	TS
	500	716	8ea		..	1075	0	TS
Dainty (905 Nufoam)								
synthetic sponge ..		..	..	..				
Dalmas (347 Dalmas) first aid dressings								
wallets	12	7	0	..	..		10	
waterproof		8	6	..	..	1	0	
		21	6	..	..	2	6	
elastic finger dressing		3	6	..	..		6	
elastic adhesive first aid								
dressing assorted	gross	6	9ea		..	9	6	
1½ × ¾ in	gross	5	0ea		..	7	0	
2½ × ¾ in	gross	7	6ea		..	10	6	
3 × ¾ in	gross	9	1ea		..	12	9	
1½ × 2 in	gross	15	0ea		..	21	0	
2 × 3 in	gross	24	0ea		..	33	6	
2½ × 3½ in	gross	32	0ea		..	45	0	
3½ × 4½ in	gross	58	0ea		..	61	3	
patchettes ..	⅛ in gross	7	0ea		..	9	10	
elastic orthopaedic								
strapping ..	2 in × 3 yd	40	8	..	..	4	9	
	2½ in × 3 yd	49	9	..	..	6	9	
	3 in × 3 yd	58	8	..	..	6	10	
	4 in × 3 yd	76	9	..	..	9	0	
vaccination dressings N.H.S.		4	0	..	..		6	
elastic N.H.S.	child	3	10	..	..		6½	
	adult	6	6	..	..		9	
waterproof	child	8	6	..	..	1	0	
	adult	8	6	..	..	1	0	
boil dressings No. 3 ..		6	0	2	0	1	1½	
elastic wound dressings								
small		5	0	..	..		7	
medium		7	0	..	..		10	
large		9	0	..	..	1	1	
ex large		13	9	..	..	1	8	
salicylic acid corn plasters								
20% N.H.S.		3	2	1	0		7	
poppy-lastic corn straps		6	0	2	0	1	1½	
umbilical pads ..		13	0	..	..	1	6	
eye shades rigid cloth		4	9	..	..		7	
elastic cloth		5	3	..	..		7½	
Dalzo (347 Dalmas)								
zinc oxide plaster ½ in × 1 yd		4	3	..	..		6	
1 in × 1 yd		5	3	..	..		7½	
½ in × 3½ yd		8	6	..	..	1	0	
1 in × 3½ yd		13	6	..	..	1	7	
¼ in × 5 yd		11	6	..	..	1	4	
½ in × 5 yd		12	6	..	..	1	6½	
¾ in × 5 yd		16	8	..	..	1	11½	
1 in × 5 yd		19	0	..	..	2	3	
1½ in × 5 yd		27	3	..	..	3	2	
2 in × 5 yd		33	3	..	..	3	10	
2½ in × 5 yd		41	9	..	..	4	10	
3 in × 5 yd		47	0	..	..	6	6	
4 in × 5 yd		61	6	..	..	7	2	
¼ in × 10 yd		18	0	..	..	2	1	
½ in × 10 yd		20	8	..	..	2	4½	
¾ in × 10 yd		28	6	..	..	3	4	
1 in × 10 yd		32	0	..	..	3	9	
1½ in × 10 yd		47	6	..	..	5	6	
2 in × 10 yd		59	6	..	..	7	0	
2½ in × 10 yd		73	0	..	..	8	6	
3 in × 10 yd		83	4	..	..	9	9	
4 in × 10 yd		104	0	..	..	12	2	
zinc oxide adhesive felt								
4½ × 3 in thin		11	6	..	..	1	4	
4 × 3 in medium N.H.S.		11	6	..	..	1	4	
3 × 3 in thick		11	6	..	..	1	4	
6 × 6 in thin		23	0	..	..	2	6	
6 × 4½ in medium		23	0	..	..	2	8	
4½ × 4 in thick		23	0	..	..	2	6	
Dalzoflex (347 Dalmas)								
elastic zinc oxide plaster								
½ in × 1 yd		7	0	..	..		10	
1 in × 1 yd		11	3	..	..	1	4	
2 in × 1 yd		17	6	..	..	2	1	
2½ in × 1 yd		20	0	..	..	2	4	
½ in × 3 yd		17	6	..	..	2	1	
1 in × 3 yd		24	6	..	..	2	10	
1½ in × 3 yd		31	0	..	..	3	7	
2 in × 3 yd		40	8	..	..	4	9	
2½ in × 3 yd		49	9	..	..	6	9	
3 in × 3 yd		58	8	..	..	6	10	
elastic adhesive bandage								
2 in × 3 yd		40	8	..	..	4	9	
2½ in × 3 yd		49	9	..	..	6	9	
3 in × 3 yd		58	8	..	..	6	10	
4 in × 3 yd		76	9	..	..	9	0	
Dapsodine (358 D&S) ..	12	231	0	..	..	27	6	pls4B
Daylight II (1027 Rank)								
projector		..	..	..		695	0	
fibre carrying case ..		..	..	..		102	6	
Day's (358 D&S)								
black drink ..	2½ oz	36	9	10	6	6	3	
Driffield oils ..	10 oz	64	9	18	6	9	3	
	20 oz	129	6	37	0	18	6	
etheric ammonia ..	8 oz	56	0	16	0	6	0	
pessaries, cattle ..	12	189	0	..	..	22	6	
sheep ..	12	168	0	..	..	20	0	
white oils ..	10 oz	64	9	18	6	9	3	
	20 oz	129	6	37	0	16	6	
Debovin (324 Crookes) ..	8 oz	495	0	..	..	55	0	
Decadron (837 MSD)								
tablets 0·5 mgm ..	30	22	6ea		..	33	9	TS
	100	66	0ea		..	99	0	TS
	500	314	6ea		..	471	9	TS
0·75 mgm ..	30	33	8ea		..	50	6	TS
	100	99	0ea		..	148	6	TS
	500	417	8ea		..	707	6	TS
Decalex (814 M&B) *x* ray								
developer-replenisher	40 oz	200	0	..	..	26	0	
	1 gal	720	0	..	..	90	0	
Decaserpyl (1087 Roussel)								
tablets 5 mgm ..	500	190	0ea		..	285	0	
10 mgm ..	20	192	0	..	..	24	0	
	100	76	8ea		..	116	0	
	500	350	0ea		..	526	0	
Declair (76 Atkinson) lotion		27	2	13	2	4	6	
Dentiline (430 Encryl) ..		20	0	5	0	2	9	
refill		17	4	4	4	2	5	
Dermitab (182 BGP) ..		7	11ea		6ea	16	6	pls4B
Dexacortisyl (1087 Roussel)								
tablets 0·5 mgm ..	20	180	0	..	..	22	6	TS
	100	792	0	..	..	99	0	TS
	500	3774	0	..	..	471	9	TS
0·75 mgm ..	20	270	0	..	..	33	9	TS

	100	1188	0	..	..	**148**	**6**	TS
	500	5660	0	..	..	**707**	**6**	TS
Dexamethasone (759 L&B)								
tablets 0·5 mgm ..	30	22	0ea		..	..		TS
	100	64	0ea		..	..		TS
	500	308	0ea		..	..		TS
Dextelan (518 Glaxo)								
tablets 0·5 mgm ..	30	22	6ea		..	**30**	**0**	TS
	100	66	0ea		..	**88**	**0**	TS
	500	314	6ea		..	**419**	**4**	TS
1·0 mgm ..	30	44	6ea		..	**59**	**4**	TS
	100	131	4ea		..	**175**	**1½**	TS
	500	628	0ea		..	**837**	**4**	TS
Diamox (746 Lederle)								
tablets 250 mgm ..	25	12	8ea		..	**19**	**0**	
	100	42	4ea		..	**63**	**6**	
	1000	391	6ea		..	**587**	**3**	
vial .. .. 500 mgm		18	0ea		..	**27**	**0**	
Diotroxin (518 Glaxo)								
tablets	dp 100	36	0	..	..	**4**	**0**	p1s4B
	dp 1000	24	0ea		..	**32**	**0**	p1s4B
Diphtheria pertussis								
prophylactic (518 Glaxo)								
ampoules ½ mil ..	3	36	0	..	..	**4**	**0**	
vial 5 mls ..		76	6	..	..	**8**	**6**	
Distavone (378 DCBL)								
vet. vial 75 mils ..		46	4ea		..	**69**	**6**	†TSVPO
Distivit (378 DCBL)								
Delete B12 injection 50 mcgm/mil 5 mil vla								
Deloxene (413 Lilly) Pulvules								
32 mgm	20	40	0	10	0	**5**	**10**	DD
	100	10	8ea	2	8ea	**18**	**8**	DD
	500	48	0ea	12	0ea	**84**	**0**	DD
65 mgm	20	60	0	15	0	**8**	**9**	DD
	100	20	0ea	5	0ea	**35**	**0**	DD
	500	90	0ea	22	6ea	**157**	**6**	DD
compound	20	48	0	12	0	**7**	**0**	DD
	100	13	4ea	3	4ea	**23**	**4**	DD
	500	60	0ea	15	0ea	**105**	**0**	DD
Dorothy Gray (385 DG)								
sun-tan lotion ..		57	0	29	0	**9**	**6**	
Double Soft (1389 VCP)								
toilet rolls		10	0	..	..	**1**	**3**	
Dromoran (1074 Roche)								
tablets 1·5 mgm ...	20	36	0	..	..	**4**	**6**	p1s1DD
E 39 (452 FBA)								
soluble ampoules 10 mgm	5	746	0	..	..	**93**	**3**	
dry-substance capsules								
5 mgm	30	488	0	..	..	**66**	**0**	
Ecomytrin (1310 WW) cream								
	5 gm	72	0	..	..			TS
	15 gm	16	6ea		..			TS
Ekco (1377 Ekco)								
Ekcostat control ..		..		..	..	**32**	**6**	
Elastoplast (1155 S&N)								
first aid dressings								
1½ × ⅞ in	100 11200	72	0	..	..	**8**	**6**	
2½ × ⅞ in	100 11300	93	0	..	..	**10**	**9**	
1½ × 1½ in	100 11500	108	0	..	..	**12**	**6**	
1½ × 2½ in	100 11600	153	0	..	..	**17**	**9**	
2 × 3 in	100 11700	225	0	..	..	**26**	**3**	
waterproof								
1½ × ⅞ in	100 12200	72	0	..	..	**8**	**6**	
2½ × ⅞ in	100 12300	93	0	..	..	**10**	**9**	
1½ × 1½ in	100 12500	108	0	.	..	**12**	**6**	
1½ × 2½ in	100 12600	153	0	..	..	**17**	**9**	
2 × 3 in	100 12700	225	0	..	..	**26**	**3**	
airstrip								
1½ × ⅞ in	100 14200	108	0	..	..	**12**	**6**	
2½ × ⅞ in	100 14300	138	0	..	..	**16**	**0**	
1½ × 1½ in	100 14500	159	0	..	..	**18**	**6**	
1½ × 2½ in	100 14600	231	0	..	..	**27**	**0**	
2 × 3 in	100 14700	339	0	..	..	**39**	**6**	
Elastoweb (1155 S&N)								
stretched 3 × 6/7 yd ..	3603	89	6	..	..	**10**	**6**	
Elix. creosote-codeine co.								
(211 Butler) ..	16 oz	78	0	..	..	**9**	**9**	
	80 oz	330	0	..	..	**41**	**3**	
Elix. polyphosph. co.								
(211 Butler) ..	16 oz	36	0	..	..	**4**	**6**	
Energen (421 Energen) rolls	60	49	6	..	..	**5**	**0**	
crispbread	6 oz	..		..	..	**1**	**6**	
Enseals (413 Lilly)								
Delete Potassium thiocyanate 65 mgm (gr 1)								
Delete 250 mgm (gr 3)								
Ephpect-Forte (266 Clarnell)								
	4 oz	60	0	15	0	**5**	**7**	
Erasmic (509 Gibbs)								
shaving cream tube ..		18	11	4	7¼	**2**	**6**	
Euvernil (695 TK) tablets	20	52	0	..	..			s4B
	100	17	4ea		..			s4B
Eyemakers a la Carte (1052 Revlon)								
eyebrow pencil propelling		72	0	36	0	**12**	**6**	
refills (3)		27	0	13	6	**4**	**6**	
eyebrow pencil short ..		36	0	18	0	**6**	**0**	
eyebrow brush ..		31	0	15	6	**4**	**6**	
eye lash tipping ..		129	0	64	6	**21**	**6**	
eye liner pencil ..		45	0	22	6	**7**	**6**	
frosted		57	0	28	6	**9**	**6**	
eye liner pencil sharpener		45	0	22	6	**6**	**6**	
eye liner liquid ..		63	0	31	6	**10**	**6**	
frosted		87	0	43	6	**14**	**6**	
brush		65	0	32	6	**9**	**6**	
eye shadow stick ..		51	0	25	6	**8**	**6**	
eye shadow pan ..		87	0	43	6	**14**	**6**	
gold, silver, gold bronze		105	0	52	6	**17**	**6**	
platinum, platinum/gold		147	0	73	6	**24**	**6**	
eye shadow brush ..		72	0	36	0	**10**	**6**	
mascara cake		45	0	22	6	**7**	**6**	
refills		30	0	15	0	**5**	**0**	
roll on		81	0	40	6	**13**	**6**	
refills		52	6	26	3	**8**	**9**	
frosted roll on ..		93	0	46	6	**15**	**6**	
remover pads		63	0	31	6	**10**	**6**	
Feedrite (454 Feedrite)								
" Extra " feeder ..		63	0	..	..	**7**	**11**	
Fennings (1100 JS)								
cooling powders children's	5	45 gross	0	11 gross	3		**6**	
little healers	12	60 gross	0	15 gross	0		**8**	
Delete tablets adults ..	30	..		..				
Ferrodic (34 A&H)								
tablets	100	54	0	..	..	**6**	**0**	
Fiesta (981 Picot) perfume								
miniature		33	0	16	6	**5**	**6**	
¼ oz		105	0	52	6	**17**	**6**	
½ oz		195	0	97	6	**32**	**6**	
1 oz		360	0	180	0	**60**	**0**	
2 oz		630	0	315	0	**105**	**0**	
Flagyl (814 M&B) tablets								
200 mgm	21	160	0	40	0	**23**	**4**	
Flexoplast (1213 ET)								
boll dressings	3	7	9	1	11¼	**1**	**1**	
first aid dressings ..		7	6	..	..		**10½**	
		15	0	..	..	**1**	**9**	
Floid (900 Norton) after shave		33	0	16	6	**5**	**6**	
		52	6	26	3	**8**	**9**	
with tan		51	0	25	6	**8**	**6**	
		87	0	43	6	**14**	**6**	
electric pre-shave ..		45	0	22	6	**7**	**6**	
		72	0	36	0	**12**	**0**	
Floidam (900 Norton)								
lotion	3 oz	39	0	19	6	**6**	**6**	
	5½ oz	66	0	33	0	**11**	**0**	
Floidam Tan (900 Norton)								
	3 oz	57	0	28	6	**9**	**6**	
	5½ oz	105	0	52	6	**17**	**6**	
R Folic acid (413 Lilly)								
tablets 5 mgm ..	100	34	0	..	..	**4**	**3**	
	1000	264	0	..	..	**33**	**0**	
Folvite (746 Lederle) elixir	4 oz	9	4ea		..	**14**	**0**	
solution 15 mgm/mil								
vial 10 mils		8	8ea		..	**13**	**0**	
tablets 5 mgm ..	100	9	2ea		..	**13**	**9**	
	1000	85	0ea		..	**127**	**6**	
Folvron (746 Lederle)								
capsules	100	13	0ea		..	**19**	**6**	
	1000	110	6ea		..	**165**	**9**	
elixir	16 oz	12	10ea		..	**19**	**3**	
tablets	100	13	0ea		..	**19**	**6**	
	1000	110	6ea		..	**165**	**9**	
Fomodox (208 BW)								
pessaries (vet) ..	6	135	0	..	..	**15**	**6**	VPO
	30	540	0	..	..	**60**	**0**	VPO
Framycort (502 Genatosan)								
sterile eye and ear drops								
	5 mils	58	0	..	..	**7**	**3**	TS
Framygen (502 Genatosan)								
sterile eye and ear drops								
	5 mils	45	0	..	..	**5**	**7**	TS
Freezheat (191 BVF) Vax								
	16 oz X16	57	0	7	0	**6**	**11**	
Delete	16 oz V11, V12	..	..	..				
Fresh Magic (876 MP) spray		13	6	3	4½	**2**	**0**	
Fynnon (104 BP) salt ..		22	9	5	8½	**2**	**11**	
Gala (876 MP) "Bronze								
Touch" lotion ..		51	0	25	6	**8**	**6**	
Gerard (505 Gerard)								
spring flowers gift set	1701	25	9	11	3	**4**	**2**	
	1702	25	3	12	4½	**4**	**3**	
Gestanin (917 Organon)								
tablets 5 mgm ..	30	18	6ea		..	**27**	**9**	
	100	52	0ea		..	**78**	**0**	
Gev-e-tabs (584 H)								
16 days		96	7	..	..	**11**	**6**	
32 days		180	7	..	..	**21**	**6**	
Gevral (746 Lederle)								
capsules	30	11	4ea	2	10ea	**19**	**10**	
Gin Fizz (Lubin (1 Abbey))								
soap box of 3		102	0	25	6	**13**	**6**	
talc		62	0	31	0	**10**	**3**	
Glean (504 GP&B)								
lens tissues		7	6	..	..		**6**	
		2 doz						
Glow-Pot (1126 Servis) ..		38	9	..	..	**4**	**9**	
Gluco-juice (430 Eucryl)		30	3	..	..			
Gluferate (1352 Wyeth)								
tablets	250	128	0	..	..	**14**	**3**	
Glumorin (452 FBA)								
tablets 30 bu	20	130	0	..	..	**16**	**3**	
Glycinal (830 Medo) tablets	50	56	0	..	..	**7**	**0**	
	250	18	6ea		..	**27**	**9**	
Gnome (520 Gnome)								
Alphax II projector ..		159	8ea		..	**239**	**6**	
Alphax III		226	4ea		..	**339**	**6**	
Alphax VI		253	0ea		..	**379**	**6**	
Goya (532 Goya) cedar wood								
cologne for men ..		45	3	22	1	**7**	**6**	
pre-electric shave lotion		33	3	16	3	**5**	**6**	
soap		11	6	2	10	**1**	**6**	
Goya (532 Goya) perfume								
handbag phial	1	24	0	12	0	**4**	**0**	
classic flacon	3	63	6	31	9	**10**	**6**	
gift flacon	4	126	9	63	4½	**21**	**0**	
royal flacon	6	603	0	301	6	**100**	**0**	
bath dusting powder ..	16	63	6	31	9	**10**	**6**	
perfumed cologne 1 oz	24	24	0	12	0	**4**	**0**	
gift size	26	39	3	19	7½	**6**	**6**	
beauty puff cocktail								
compact	55	27	0	13	6	**4**	**6**	
kiss swivel stick ..	63	27	0	13	6	**4**	**6**	

golden case	65	33	3	16	6	5	6	
gold metal compact ..		51	0	25	6	8	6	
G.P. (339 CG) soap, toilet		6	0	1	6		11	
Gualime (940 PK) ..		28	9	..	..	3	0	
Guavin (940 PK) ..		28	9	..	..	3	0	
Guavo (940 PK)		28	9	..	..	3	0	
Gwilym Evans (552 GE)								
digestive pearls ..		14	4	3	7	1	11	
Gynomin (276 C&C) tablets	12	31	6	..	..	3	6	
Delete Halimalt (324 Crookes)	8 oz							
	16 oz							
Hanovia (1373 Hanovia)								
prescription lamps								
model 4 UV only ..		..	..	..		440	0	
6 UV and IR		..	..	..		500	0	
7 UV and IR		..	..	..		540	0	
Hansons (202 Bryten)								
adult cough balsam ..		13	6	3	4	2	3	
catarrh compound ..		12	6	3	1	2	0	
H.E. (1063 Rimmel) His Excellency								
aerated shaving lather		44	8	11	2	6	6	
after bath body rub ..		39	0	19	6	6	6	
after shave lotion ..		27	0	13	6	4	6	
anti-dandruff shampoo		37	8	9	5	5	6	
anti-perspirant and deodorant spray ..		33	0	16	6	5	6	
body talcum ..		33	0	16	6	5	6	
pre-electric shave lotion		33	0	8	3	5	6	
tonic hair dressing ..		33	0	16	6	5	6	
H.E.B. (589 HEB)								
simplex	3 oz	29	0	..	..			
	8 oz	70	0	..	..			
	20 oz	135	0	..	..			
	36 oz	234	0	..	..			
	5 lb	37	6ea		..			
lac	20 oz	45	0	11	6	6	7	
	40 oz	85	0	22	0	12	6	
	80 oz	165	0	42	0	23	1	
normal and waterproof	8 oz	40	0	10	0	5	10	
	24 oz	85	0	22	0	12	5	
	48 oz	153	0	38	6	22	4	
	7 lb	24	8ea	6	2ea	43	2	
	18 lb	57	0ea	14	3ea	99	9	
Heparin (147 Boots) injection B.P.								
1,000 i.u./mil vial 5 mils		34	0	..	..	4	3	
5,000 i.u./mil vial 5 mils		120	0	..	..	15	0	
25,000 i.u./mil vial 5 mils		540	0	..	..	67	6	
powder 20,000 i.u. 1 lb.		122	0	..	..	15	3	
100,000 i.u.		516	0	..	..	64	6	
Hetrazan (746 Lederle)								
tablets 50 mgm ..	100	10	0ea		..	15	0	
	1000	83	6ea		..	125	3	
Hibitane (649 ICI)								
antiseptic lozenges ..	250	270	0	..	..			
Houseproud (942 Passmill)								
extra soft toilet tissue		7	8	..		1	3	
Huskolein (358 D&S)	20 oz	140	0	40	0	20	0	
	1 gall	665	0	190	0	95	0	
Hydromycin D (147 Boots)								
ointment 5 gm ..		57	0	..	..	6	4	TS
15 gm		147	0	..	..	16	4	TS
lotion 15 mils		153	0	..	..	17	0	TS
ear/eye drops 3 mils ..		57	0	..	..	6	4	TS
Hydrothide (330 Medo) ..	25	5	9ea		..	6	7½	
	100	21	4ea		..	32	0	
	250	52	0ea		..	78	0	
Inecto (1028 Rapidol)								
hair colour creme for men		40	0	20	0	6	6	
Iron-Ox (800 TM)								
tonic tablets	50	17	0	4	3	2	3	
	140	36	0	9	0	4	9	
	250	58	8	14	8	7	9	
Ismelin (262 CIBA)								
tablets 10 mgm ..	25	8	8ea		..	13	0	
	100	32	4ea		..	46	6	
	500	157	4ea		..	236	0	
25 mgm ..	25	20	0ea		..	30	0	
	100	76	4ea		..	114	6	
	500	376	8ea		..	565	0	
Delete **I-So-Gel** (34 A&H)	150 gm	..	..					
	200 gm	56	0	14	0	7	0	
Delete	300 gm	..	..	..				
Jadit (614 Hoechst)								
(distributors 621 Horlicks)								
ointment ..	20 gm	28	0	6	10	4	1	
powder ..	40 gm	52	0	12	8	7	7	
solution ..	30 mils	52	0	12	8	7	7	
Jadit 'H' (614 Hoechst)								
(distributors 621 Horlicks)								
ointment ..	5 gm	70	0	17	1	10	2	TS
solution ..	6 mils	96	0	23	5	13	11½	TS
Jane Seymour (665 JS)								
double wonder ..		19	6	9	6	3	3	
eye shadow palette ..	236	15	0	7	4	2	6	
mascara eye shadow palette	235	15	0	7	4	2	6	
Karvol (324 Crookes)								
inhalant capsules ..	10	16	0	4	0	2	4	
Kent (693 Kent) brushes								
shaving 90% badger, 10% bristle .. .	K52	34	5ea	8	4ea	60	0	
tooth, badger ..	KB42	39	4	..		4	11	
Kilkof (939 Parkinson) ..	3 oz	14	9	3	8	2	0	
Kleenex (702 KC) kitchen roll		15	9	..	..	1	9	
holder		28	6	3	10	3	6	
Kleinerts (706 Kleinerts) baby pants								
Frolic 2183		40	0	..	..	4	11	
extra large		44	0	..	..	5	6	
Kolynos (655 ICC)								
super white dental cream		13	10	3	6	1	10	
denture powder		13	3	3	4	1	9	
		20	8	5	2	2	9	
Lancome (726 Lancome)								
eau solaire		..	..	..		17	6	
fond de teint solaire mat		..	..	..		13	0	
Lazitan (78 AS&Co) tan lotion		40	0	20	0	7	11	
Ledercort (746 Lederle)								
acetonide cream 0·1%	5 gm	4	2ea		..	6	3	TS
	15 gm	10	4ea		..	15	6	TS
ointment 0·1%	5 gm	4	2ea		..	6	3	TS
	15 gm	10	4ea		..	15	6	TS
tablets 4 mgm ..	30	37	6ea		..	56	3	TS
	100	120	0ea		..	180	0	TS
	500	550	0ea		..	625	0	TS
2 mgm ..	30	21	0ea		..	31	6	TS
	100	60	0ca		..	90	0	TS
	500	279	0ea		..	416	6	TS
Lederkyn (746 Lederle)								
suspension	2 oz	8	0ea		..	12	0	pls4B
	16 oz	56	8ea		..	85	0	pls4B
tablets	24	15	8ea		..	23	6	pls4B
	100	58	8ea		..	66	0	pls4B
	500	276	4ea		..	414	6	pls4B
Ledermycin (746 Lederle)								
drops	10 mils	7	4ea		..	11	0	TS
syrup	2 oz	10	10ea		..	16	3	TS
	16 oz	78	0ea		..	117	0	TS
Lederplex (746 Lederle)								
capsules	100	14	6ea		..	21	9	
	500	62	10ea		..	94	3	
liquid	4 oz	7	0ea		..	10	6	
	8 oz	11	10ea		..	17	9	
	12 oz	16	6ea		..	24	9	
tablets	100	14	6ea		..	21	9	
	1000	123	8ea		..	165	6	
Le Gardenia Blanc (981 Picot)								
perfume .. miniature		33	0	16	6	5	6	
	¼ oz	105	0	52	6	17	6	
	½ oz	195	0	97	6	32	6	
	1 oz	360	0	180	0	60	0	
	2 oz	630	0	315	0	105	0	
Leichner (749 Leichner)								
blending powder								
standard	116	25	0	12	6	4	2	
large	118	30	0	18	0	6	0	
blood, liquid .. bottle	702	36	0	18	0	6	0	
congealed .. jar	701	30	0	15	0	5	0	
carmine	52	24	0	12	0	4	0	
casualty putty ..	700	28	0	..	..	3	6	
clown white .. tins	55	30	0	15	0	5	0	
eau de lys liquid powder	62	30	0	15	0	5	0	
gold and silver ..	62	72	0	36	0	12	0	
eye cosmetic & brush	60b	28	0	14	0	4	6	
block only	60a	16	0	8	0	2	8	
fluorescent u.v. make-up	106	60	0	30	0	10	0	
greasepaint	105	96	0	48	0	16	0	
form C—standard sticks		12	0	6	0	2	0	
gold and silver		21	0	10	6	3	6	
form E—short blunt liners .. .		9	0	4	6	1	6	
form G—short liners		9	0	4	6	1	6	
form H—carmine liners		12	0	6	0	2	0	
heating cosmetic ..	486	24	0	12	0	4	0	
silver and gold ..	486	28	0	14	0	4	6	
hair powder	121	21	0	10	6	3	6	
"Kamera Klear" cinema make-up	501	28	0	14	0	4	6	
negro black	1433	18	0	9	0	3	0	
nose putty	257	14	0	..	..	1	9	
"Spot-Lite" "Klear" make-up	500	28	0	14	0	4	8	
gold and silver ..		66	0	33	0	11	0	
finishing powder ..	300	30	0	15	0	5	0	
large	301	45	0	22	6	7	6	
pencil in wood ..	46/2	10	0	5	0	1	6	
	46	16	0	8	0	2	6	
pencil in paper ..	78	10	0	5	0	1	8	
spirit gum mastic ..	165	30	0	..	..	3	9	
substitute	1065	14	0	..	..	1	9	
"Tan Klear"	641	24	0	12	0	4	0	
	640	36	0	18	0	6	0	
tinsel powder	123	20	0	10	0	3	4	
tooth enamel, black ..	433	24	0	..	..	3	0	
white, ivory ..	433	24	0	12	0	4	0	
Le Muguet Fleuri (981 Picot)								
perfume .. miniature		33	0	16	6	5	6	
	¼ oz	105	0	52	6	17	6	
	½ oz	195	0	97	6	32	6	
	1 oz	360	0	180	0	60	0	
	2 oz	630	0	315	0	105	0	
Lestreflex (347 Dalmas) elastic diachylon bandage								
	3 in × 3 yd	58	8		.	6	10	
	4 in × 3 yd	76	9	..	..	9	0	
Le Train Bleu (981 Picot)								
perfume .. miniature		33	0	16	6	5	6	
	¼ oz	105	0	52	6	17	6	
	½ oz	195	0	97	6	32	6	
	1 oz	360	0	180	0	60	0	
	2 oz	630	0	315	0	105	0	
Leucovorin (746 Lederle)								
ampoules 3 mgm/mil .	6	31	2ea		..	46	9	
Librium (1074 Roche)								
capsules 10 mgm ..	25	68	0	17	0	9	11	
	100	240	0	60	0	35	0	
	500	984	0	246	0	143	6	
Linc-o-lin (763 Lincoln)								
universal hair treatment		16	0	8	0	2	9	
Linct. rosae (211 Butler)	16 oz	48	0	..	.	6	0	
	80 oz	192	0	..	..	24	0	

	Liq. aurant. dulc. conc. (211 Butler)								
		16 oz	78	0	..	..	9	9	
		40 oz	180	0	..	..	22	6	
Delete		80 oz	..	..	..	..	..		
	Liq. nitritam (211 Butler)	16 oz	36	0	..	..	4	6	
		40 oz	80	0	..	..	10	0	
Delete		80 oz	..	..	..	..	..		
	Liver injection USP (746 Lederle)								
	B12—20 mcgm/cc, vial	3	7	0ea		..	10	6	
	Lord Riam (1368 Ries)								
	battery shaver ..		41	6ea	10	2ea	69	6	
	Lusty's (781 Lusty's)								
	seaweed bath ..	5 bags	22	0	5	3	3	2	
	tablets	50	14	6	3	6	2	1	
		150	33	0	7	10	4	9	
	Lydrin (211 Butler)	16 oz	120	0	..	..	15	0	
	Lysinex (769 Lloyd Hamol)								
	tablets	25	12	0ea		..	18	0	
		100	38	0ea		..	57	0	
	Lystone (655 ICC) salts ..		22	8	5	8	3	0	
	Magic Tan (876 MP) ..		10	6	5	3	1	9	
	Man-Tan (1076 Rolls) ..		129	4	64	6	21	6	
	Makeur (89 Bairant)								
	cosmetic applicator								
	dressing table model		..	..		..	147	0	
	travelling model ..		..	..		..	126	0	
	Margo's (798 Margolis)								
	lanolin hand cream		6	6	3	3	1	3	
	talcum bouquet of flowers		16	8	8	4	2	11	
Delete	Marienbad (1303 Wander) tablets								
	Marsilid (1074 Roche)								
	tablets 25 mgm ..	50	68	0	..	..	8	6	TS
		250	280	0	..	..	35	0	TS
	50 mgm ..	100	220	0	..	..	27	6	TS
		1000	1760	0	..	..	220	0	TS
	Mason Pearson (807 MPB) hairbrushes								
	Ladies	extra small	494	0	123	0	72	0	
		extra large	549	0	137	0	80	0	
	Mens military ..	extra small	494	0	123	0	72	0	
		extra large	549	0	137	0	80	0	
	Maw's (810 Maw)								
	baby teat three hole ..		5	9	..	..		8	
	feeding bottles								
	Pyrex 4 oz ..	303·11	19	1	..	..	2	4	
	8 oz ..	302·00	19	9	..	..	2	5	
	hot water bottles								
	Twin-heat ..	550·31	42	0	..	..	8	0	
	Superheat ..	550·36	60	0	..	..	7	6	
	Uniheat ..	550·40	79	0	..	..	9	0	
	Comet ..	550·22	55	0	..	..	6	0	
	Hey Diddle Diddle	550·35	54	0	..	..	6	9	
	Cosicot ..	335·01	34	0	..	..	4	3	
	shaving brushes								
	Club	530·16	62	3	15	7			
		530·17	71	6	17	10½			
		530·18	83	4	20	9			
	Badger ..	530·09	13	6	3	4½			
		530·10	17	6	4	4½			
	Max Factor (813 MF)								
	roll-on deodorant ..		34	8	17	0	5	9	
	Melleril (1098 Sandoz)								
	tablets 10 mgm ..	50	40	0	..	..	5	0	
		250	180	0	..	..	22	6	
	25 mgm ..	50	66	0	..	..	8	3	
		250	300	0	..	..	37	6	
	50 mgm ..	50	126	0	..	..	15	9	
		250	570	0	..	..	71	3	
	100 mgm ..	50	240	0	..	..	30	0	
		250	1080	0	..	..	135	0	
	Melolin (1155 S&N) dressings								
	10 × 20 cm	50	11	6ea		..	16	3	
	20 × 30 cm	50	30	9ea		..	43	3	
	10 × 10 cm	100	12	0ea		..	17	0	
	Mephine (1352 Wyeth)								
	injection ampoule	1 mil	29	0	..	..	3	3	
	multi-dose vial	10 mils	89	0	..	..	9	11	
	tablets	20	27	0	..	..	3	0	
		250	146	0	..	..	16	3	
	MER-29 (838 MN) tablets	30	360	0	90	0	52	6	
		100	1140	0	285	0	166	3	
	Metastab (147 Boots)								
	tablets	30	40	0ea		..	53	4	TS
		100	128	0ea		..	170	8	TS
	Millicorten (262 CIBA)								
	tablets 0·5 mgm ..	25	18	8ea		..	28	0	TS
		100	66	0ea		..	99	0	TS
		500	314	6ea		..	471	9	TS
	1 mgm ..	25	37	0ea		..	55	6	TS
		100	131	4ea		..	197	0	TS
		500	628	0ea		..	942	0	TS
	Mist. bismuth co. (211 Butler)								
		16 oz	108	0	..	..	13	6	
		80 oz	480	0	..	..	60	0	
	Monophen (645 Ilford)	500 cc	70	0	..	..	8	9	
	Moore's (859 Moore)								
	baby cream ..	1¼ oz	16	6	..	..	2	0	
	Morny (862 Morny)								
	bath salt tablets 12 ..	451	..		..	..	6	0	
	crystals ..	470	..		..	..	8	6	
	perfume medium flask	134	..		..	..	12	6	
	perfume "Luxury Mist"	144	..		..	..	15	0	
Delete	perfume large flask ..	136							
Delete	skin perfume	190							
Delete	skin perfume	191							
	skin perfume	195	..		..	..	5	6	
	talcum plastic	605	..		..	..	7	6	
	refill	606	..		..	..	3	6	
	Morphine sulphate (147 Boots)								
	ampoules gr ½/mil ..	6	42	0	..	..	5	3	s1DD
	Mum (1113 S&B)								
	deodorant stick ..		18	8	9	4	3	0	
	for men		34	0	17	0	5	6	

	Mycteelin V (1176 Squibb)								
	capsules, 250 mgm ..	500	882	4ea		..	1323	6	TS
	My Tan (467 Fleet)								
	(distributors 128 Biometica)								
	after shave lotion ..		90	0	45	0	15	0	
	Napisan (1398 GC) ..		20	0	..	..	2	6	
	Narphen (1154 S&N) ampoules								
	2 mgm/mil	10	15	0ea		..	22	6	DD
		100	120	0ea		..	180	0	DD
	veterinary	10	15	0ea		..	22	6	DD
	.. ..	100	120	0ea		..	180	0	DD
	Neothyl (787 Macfarlan)								
		100 gm	4	0ea		..			
		500 gm	16	0ea		..			
	Nethapryn (838 MN)								
	linctus	4 oz	60	0	15	0	8	9	
	Night Tan (1397 Ellanby)		12	6ea	6	3ea	25	0	
	Nilergex (649 ICI) injection								
	ampoules 1 mil ..	5	48	0	..	..	6	0	pls7
Delete		365	15	9	7	10½	2	7	
	creme	6 oz	39	0	19	6	6	6	
	Nivemycin (147 Boots)								
	ointment ..	15 gm	27	6	..	..	3	5	TS
		30 gm	35	0	..	..	4	4½	TS
	No-Slip (608 Hinders) hose saver								
	rubber	pair	11	0		7	1	6	
	sponge rubber	pair	11	0		7	1	6	
Delete	"liteweight"		..		..	..	..		
	Nurse Harvey's (578 Harvey)								
	baby powder squeeze pack		26	0	6	6	3	6	
	mixture		17	0	4	3	2	3	
	Odo-Ro-No (493 Gambles)								
	perfumed stick ..		18	0	9	0	3	0	
	Oestradin (901 Norton) ..		..		..	..			†sls4
	Oil of the Night (358 D&S)								
	(home)	2½ oz	26	3	7	6	3	9	
		5 oz	35	0	10	0	5	0	
		10 oz	60	8	17	4	8	8	
		30 oz	157	6	45	0	22	5	
	(veterinary) ..	10 oz	68	10	19	8	9	10	
		30 oz	157	6	45	0	22	5	
	Omniped (656 IFA)								
	foot cream ..	1½ oz	26	0	6	6	3	9	
	Optrose (690 Keldon)								
	rose-hip syrup		22	6	..	..	2	6	
	Orabilix (115 Bengue) tablets 6		48	0	..	..	5	4	
	Oradexon (917 Organon)								
	tablets 0·5 mgm ..	30	22	6ea		..	33	9	TS
		100	66	0ea		..	99	0	TS
		500	314	6ea		..	471	9	TS
	0·75 mgm ..	30	33	8ea		..	50	6	TS
		100	99	0ea		..	148	6	TS
		500	471	8ea		..	707	6	TS
	Orstrax (920 Orstrax)								
	tonic tablets		47	6	..	..	5	6	
			108	0	..	..	12	6	
Delete	Overones (120 BGP)								
	Overones (182 BGP) ..		7	10½ea		6½ea	15	6	pls4
	Pagan (981) Picot) perfume								
	miniature		33	0	16	6	5	6	
		¼ oz	105	0	52	6	17	6	
		½ oz	195	0	97	6	32	6	
		1 oz	360	0	180	0	60	0	
		2 oz	630	0	315	0	105	0	
	Palmolive (280 CP) rapid shave		47	5	11	9	6	3	
	Pamergan (814 M&B) solutions								
	P100/25 1 mil ..	10	76	0	..	..	9	6	pls11
	AP100/25 1 mil ..	10	80	0	..	..	10	0	pls11
	Parentrovite (1285 Vitamins) ampoules, pairs intra-								
	muscular high potency	3	96	0	..	..	12	0	
	Pasinah-302 (1303 Wander)								
		180	41	0ea		..	61	6	TS
		540	114	8ea		..	172	0	TS
	Payot, Dr (870 MV)								
	deodorant	856.71	6	5½ea	2	11½ea	12	4	
	fard satin	432.71	6	3ea	3	1½ea	12	0	
	Penidural (1352 Wyeth)								
	tablets	20	106	0	..	..	11	10	TS
		100	474	0	..	..	52	8	TS
	sulphas ..	20	120	0	..	..	13	4	†s4B
		100	540	0	..	..	60	0	†s4B
	Pentothal (2 Abbott)								
Delete	1.0 gm with 50 mils water 1		..		..				
	1.0 gm with 40 mils water 1		4	2ea		..	6	3	†sls4
	Personality (963 PBP) turtle oil								
	complexion milk	14/17	10	3	5	0	1	8	
	deep cleansing cream	14/37	39	0	19	0	6	3	
	foundation cream ..		47	6	23	2	7	9	
	Pertenal (324 Crookes) ..	500	648	0	162	0	94	6	†sls4
	Phillips (976 PS&T)								
	tooth-paste		13	4	3	4	1	10	
			19	4	4	10	2	8	
Delete	Phrosidine (120 BGP)								
	Phrosidine (182 BGP) tablets		31	10ea	1	8ea	50	0	pls4
	Phrosidine forte (182 BGP)								
	tablets		39	9ea	2	3ea	60	0	pls4
	Plastabook (1247 TDC)								
	first aid dressings 2¾ doz		50	0	..	..	2	6	
	Pleniron (695 TK) tablets	100	4	2ea	1	1ea			
		1000	38	0ea	9	6ea			
	Plesmet (276 C&C)								
	tablets	1000	240	0	..	..	30	0	
	Ponds (256 CPL)								
	lipsticks medium swivel		20	6	10	3	3	3	
	Positan (1076 Rolls) ..		129	4	64	6	21	6	
	Potters (992 P&C) pastilles								
	Gees linctus BPC ..		11	6	..	..	1	6	pl
	menthol and eucalyptol								
	BPC 1949		11	6	..	..	1	6	
	glycerin and blackcurrant		11	6	..	..	1	6	
	glycerin, honey and lemon		11	6	..	..	1	6	

antiseptic throat		11	6	2	10½	1	9		
cherry cough		11	6	2	10½	1	9		
glycerin of thymol		11	6	2	10½	1	9		
Predsol (518 Glaxo)									
injection	1 mil single	10	6ea		..	14	0	TS	
	6	50	0ea		..	66	8	TS	
Preludin (969 Pfizer)									
Tablonget 50 mgm	.. 100	30	0ea		..	45	0	p1s4B	
Pripsen (1324 Westminster)									
	dp gr 160	21	0 ..		..	2	6		
Proctosedyl (1087 Roussel)									
ointment 15 gm	..	144	0 ..		..	18	0	TS	
Proladone (324 Crookes)									
	1 mil 6	90	0 ..		..	10	0	p1s1DD	
	50	666	0 ..		..	74	0	p1s1DD	
Prostalin (182 BGP)	..	6	0½ea		6½ea	13	0		
Prostigmin (1074 Roche)									
ophthalmic solution 3%									
	7·5 mils	60	0 ..		..	7	6		
Pularin (436 Evans)									
1000 iu per mil	5 mils	34	0 ..		..	4	3		
5000 iu per mil	5 mils	120	0 ..		..	15	0		
12500 iu per mil	1 mil	86	0 ..		..	10	9		
25000 iu per mil	5 mils	45	0ea		..	67	6		
freeze dried pdr. 100000 iu		43	0ea		..	64	6		
Quix (608 Hinders) heel grips									
de luxe	pair	11	0		7	1	6		
sponge rubber	pair	10	0		6	1	4		
Radiol (1023 Radiol) worm powder									
S (Strongyles)	.. 3 oz	45	0 ..		..	5	0		
Rayfilta (1277 VI)	..	30	10	7	8½	4	6		
Reconciliation (1032 Raymond)									
perfume	.. ..	150	0	75	0	25	0		
Remington (1044 RR)									
shaver standard	..	..	..		..	185	0		
triple-volt	..	..	..		..	199	6		
auto-home	..	..	..		..	215	0		
Resochin (452 FBA)									
tablets	.. 100	176	0 ..		..	22	0		
Resotren (452 FBA)									
tablets	.. 300	1472	0	368	0	214	8	p1	
Reudel (655 ICC) bath salts		15	2	3	10	2	0		
Revicaps (746 Lederle)	.. 100	16	10ea	4	3ea	29	6	p1s4B	
Revitone (1074 Roche)									
syrup	.. 6 oz	24	0	6	0	3	6	p1	
	dp 80 oz	216	0 ..		..	27	0	p1	
Rezesta-B (612 Hobson) royal jelly plus multi-vitamin capsules	.. 30	34	0ea	8	6ea	57	6		
Rikospray (1061 Riker)									
benzocaine ..	..	12	0ea		..	18	0		
silicone ..	..	15	4ea	3	10ea	23	0		
Ro-A-Vit (1074 Roche)									
drops 150,000 iu mil 7·5 mils		68	0 ..		..	8	6		
tablets 50,000 iu	.. 30	84	0 ..		..	10	6		
	200	480	0 ..		..	60	0		
Roberts Windsor (1070 Windsor)									
soap luxury size	..1106	11	7	2	9	1	6		
Robinson's (285 Colman)									
high protein cereal	..	19	3 ..		..	2	0		
Roccal (97 Bayer)									
antiseptic ..	6 oz	17	4 ..		..	2	2		
	16 oz	38	0 ..		..	4	9		
	80 oz	135	0 ..		..	15	9		
Delete tincture ..	6 oz	..	..		..				
	80 oz	..	..		..				
Romilar (1074 Roche)									
syrup, 15 mgm/5 mils									
	100 mils	48	0 ..		..	6	0	p1	
	500 mils	220	0 ..		..	27	6	p1	
tablets 15 mgm	.. 20	36	0 ..		..	4	6	p1s1	
	100	144	0 ..		..	18	0	p1s1	
	200	264	0 ..		..	33	0	p1s1	
expectorans, syrup	100 mils	48	0 .		..	6	0	p1	
	500 mils	220	0 ..		..	27	6	p1	
Rozalex (1088 Rozalex)									
lanolin skin cream	..	..	..		..	3	0		
Salazopyrin (1106 S)									
tablets 0·5 gm	.. 100	340	0 ..		..	42	6	p1s4B	
	500	1272	0 ..		..	159	0	p1s4B	
Schick (1115 SI) electric shavers									
3 speed triple voltage		141	9ea	34	6ea	230	0		
190/240 voltage	..	126	4ea	30	9ea	205	0		
ScotTowels (153 BSC)									
paper towels ..	..	15	7 ..		..	1	9		
holders ..	..	36	7	4	6	4	6		
Delete **Sedaltine** (70 Aspro)									
tablets	.. 100								
	250								
Serpasil-Esidrex (262 CIBA)									
tablets	.. 25	64	0 ..		..	8	0	p1s4B	
	100	224	0 ..		..	28	0	p1s4B	
	500	88	8ea		..	133	2	p1s4B	
Serpasil-Esidrex K (262 CIBA)									
tablets	.. 25	66	0 ..		..	8	3	p1s4B	
	100	228	0 ..		..	28	6	p1s4B	
	500	90	0ea		..	135	0	p1s4B	
She-Tan (451 F&J)	..	105	0	52	6	17	6		
Soframycin (1087 Roussel)									
oral tablets 250 mgm	.. 20	37	6ea		..	56	3		
Delete **Softexe** (339 CG)									
sanitary towels	D108								
	D107								
	size 2								
Delete **Somnased** (394 Duncan)	100								
	500								
Somnifaine (1074 Roche)									
ampoules, 2 mlc	.. 6	53	4 ..		..	6	8	†s1s4A	
Spa (1167 Spa) brushes									
hair, ladies' nylon styling									
featherweight	..	24	0	6	0	3	6		
Spa (1167 Spa) sets ladies									
Rosalind ..	..	65	6	16	4	9	6		
Sparine (1352 Wyeth)									
injection (vet) vial	10 mils	64	9 ..		..	7	3	s1s4B VSO	
	30 mils	168	9 ..		..	18	9	s1s4B VSO	
tablets 25 mgm	.. 50	66	7 ..		..	7	5	p1s4B	
	250	308	0 ..		..	34	3	p1s4B	
50 mgm	.. 50	127	8 ..		..	14	3	p1s4B	
	250	580	11 ..		..	64	7	p1s4B	
100 mgm	.. 50	240	6 ..		..	26	9	p1s4B	
	250	1137	9 ..		..	126	5	p1s4B	
injection 2 mils	.. 10	122	0 ..		..	13	7	p1s4B	
Delete S.P.H.P. (120 BGP)									
S.P.H.P. (182 BGP)	..	11	3ea		10ea	23	6		
Sportsman (645 Ilford)									
colour filters ..	..	154	0	38	0	22	5		
Sprayclean (1388 Durazone)									
spot remover aerosol	.. 6 oz	..	..		..	4	0		
Spray Magic (876 MP)	..	15	0	7	6	2	6		
Spray Net (24 Akos)									
aerosol hair lacquer	.. 6 oz	48	0	24	0	8	0		
	16 oz	102	0	51	0	18	0		
Spray Set (532 Goya)	..	51	0	25	6	8	6		
Stelabid (1153 SKF)									
Spansule ..	.. 30	144	0	36	0	21	0	p1s4B	
	250	95	0ea	23	9ea	166	3	p1s4B	
Steladex (1153 SKF)									
Spansule ..	.. 30	160	0 ..		..	20	0	p1s4B	
	250	105	6ea		..	158	3	p1s4B	
Stratton (735 Laughton)									
compact Thinette	..	..	..		..	25	6		
Strepsils (147 Boots)	.. 24	16	8 ..		..	2	3		
Stuart (1191 SM) glove soap		20	0 ..		..	2	6		
Suede (981 Picot)									
perfume miniature		37	6	18	9	6	3		
	¼ oz	120	0	60	0	20	0		
	½ oz	225	0	112	6	37	6		
	1 oz	420	0	210	0	70	0		
	2 oz	756	0	378	0	126	0		
Sulphadiazine (746 Lederle)									
tablets BP 0·5 gm	.. 100	10	0ea		..	15	0	p1s4B	
	500	48	4ea		..	72	6	p1s4B	
	1000	96	8ea		..	145	0	p1s4B	
Sulphamagna (1352 Wyeth)									
	4 oz	100	0	25	0	13	3	†s4BTS	
Sunsilk (509 Gibbs)									
tonic shampoo sachet		6	3½	1	6½		10		
bottle ..		18	7½	4	6½	2	6		
Supavite (493 Gambles)									
capsules 21 single	..	43	6 ..		..	5	0		
42 ..	..	78	4 ..		..	9	0		
Sure Shield (549 Guest)									
laxatives fruit flavoured		8	4	2	1	1	3		
		15	0	3	9	2	3		
Surfadil (413 Lilly)									
cream	28 gm	36	0 ..		..	4	6		
Tabac (963 PBP)									
deodorant spray	14/48	51	8	25	2	8	6		
cologne ..	14/49	48	4	23	7	7	11		
shave cream lather	14/50	38	11	9	6	5	6		
brushless	14/51	38	11	9	6	5	6		
pre-electric shave									
lotion ..	14/52	47	0	22	11	7	9		
Tace (838 MN) tablets	.. 30	164	0	41	0	23	11	p1s4B	
	100	504	0	126	0	73	6	p1s4B	
Tan-Glo (312 AC)									
suntan creme ..	30 gm	11	6	5	9	2	6		
Taumasthman (1301 WM)									
tablets	.. 60	73	0 ..		..			p1	
	250	234	0 ..		..			p1	
Taylor's (1213 ET)									
zinc oxide plaster ½ in × 1 yd		4	3 ..		..		6		
1 in × 1 yd		5	3 ..		..		7½		
½ in × 3½ yd		8	6 ..		..	1	0		
1 in × 3½ yd		13	6 ..		..	1	7		
½ in × 5 yd		12	6 ..		..	1	5½		
1 in × 5 yd		19	0 ..		..	2	3		
2 in × 5 yd		33	3 ..		..	3	10		
waterproof strapping									
1 in × 1 yd		6	6 ..		..		9		
½ in × 5 yd		12	0 ..		..	1	6		
belladonna plaster BPC white cloth									
5 in × 7½ in		8	9	2	2¼	1	2	p1	
7 in × 11 in		17	6	4	4½	2	4½	p1	
6 in dia		9	9	2	5¼	1	4½	p1	
7 in dia		12	4	3	1	1	8	p1	
red felt ..	.. 5 in × 7½ in	16	0	4	0	2	2½	p1	
corn plaster sal acid 20%									
1¾ in × 3 in		4	2	1	0½		7		
joystep white wool felt		11	6 ..		..	1	4		
waterproof first aid dressings		7	6 ..		..		10½		
		15	0 ..		..	1	9		
T.B.P. (174 BA)									
hair and scalp treatment		15	9	3	10	2	1		
		27	0	6	7	3	6½		
Tensival (378 DCBL) tablets	25	4	0ea		..	6	0	p1s4B	
	100	14	6ea		..	21	9	p1s4B	
Tercin (179 BDH)									
tablets	.. 200	66	0 ..		..	8	3	†s1s4A	
	1000	306	0 ..		..	38	3	†s1s4A	
Teropterin (746 Lederle) solution									
10 mgm/mil 10 vial mils		42	2ea		..	63	3		
Terpacol (195 Brook Parker)									
	4 oz	40	0 ..		..			p1	
	8 oz	70	0 ..		..			p1	
	16 oz	126	0 ..		..			p1	
	80 oz	50	0ea		..			p1	
Tersavid (1074 Roche)									
tablets 50 mgm	.. 50	88	0	22	0	12	10		
	250	336	0	84	0	49	0		

Delete	Testrones-Dermitab (120 BGP)							
	Testrones (182 BGP)		7	11ea		6ea	15	6
	Tetanus toxoid (518 Glaxo)							
	ampoules ½ mil	3	36	0 ..		..	4	0
	vial 5 mils		76	6 ..		..	8	6
	Thephorin (1074 Roche)							
	tablets 25 mgm	1000	864	0 ..		..	108	0 p1s7
	Thermalux (1224 TEP) electric							
	blanket "Sleepwell" 54 × 30		86	3ea	20	9ea	135	9
	Tokalon (1240 Tokalon)							
	hand cream		8	1	4	0½	1	3
			13	0	6	6	2	0
Delete	Tonivitan (830 Medo) capsules	1000						
	Tranquilex (1053 Rexall)	40	48	0 ..		..	5	9 p1s4B
		120	125	0 ..		..	15	0 p1s4B
	Triominic (1303 Wander)							
	syrup	2 oz	30	0 ..		..	3	9 p1s7
		20 oz	14	2ea		..	21	3 p1s7
	tablets	50	101	8 ..		..	12	9 p1s7
		250	36	5ea		..	62	11 p1s7
	Trust (671 Jeyes)							
	toilet roll		12	4 ..		..	1	4
	Tumeson (614 Hoechst) (distributors 621 Horlicks)							
	ointment	5 gm	40	0	9	9	5	10
		20 gm	128	0	31	2	18	7
	Turn Tan (1053 Rexall)		75	0	37	6	12	6
	Tussinf (195 Brook Parker)	4 oz	25	0 ..		..		p1
		8 oz	39	0 ..		..		p1
		16 oz	66	0 ..		..		p1
		80 oz	24	0ea		..		p1
	Tycoon (705 Kirby)							
	after shave lotion		32	0	16	0	6	0
	deodorant		32	0	16	0	6	0
	hair dressing		32	0	16	0	6	0
	medicated shampoo		32	0	16	0	6	0
	pre-electric shave lotion		32	0	16	0	6	0
	talcum powder		32	0	16	0	6	0
	presentation packs of							
	any two		68	0	34	0	12	6
	Tylenol (1383 McNeil)							
	elixir	4 oz	56	0 .			7	0
	Tyordac (346 Dales)							
	pastilles	100	10	6ea		..		
		250	24	6ea		..		
	Val-Pak (343 DH) tube		12	10	6	5	2	0
	Valpeda (343 DH)		21	0 ..		..	2	6
	Valtorin (969 Pfizer)							
	tablets	6	16	0 ..		..	2	0
		12	30	0 ..		..	3	9
		dp100	180	0 ..		..	22	6
		dp300	480	0 ..		..	60	0
	Varidase (746 Lederle)							
	buccal tablets	12	21	8ea		..	32	6 TS
	Vasogen (720 Lactogol)							
	silicone	50 gm	46	3	11	7	6	6
	Veet (343 DH)		16	4	8	2	2	6
			22	10	11	5	3	6
	Veractil (814 M&B)							
	tablets 5 mgm	50	36	0 ..		..	4	6 p1s4B
		500	300	0 ..		..	37	6 p1s4B
	25 mgm	50	110	0 ..		..	13	9 p1s4B
		500	980	0 ..		..	122	6 p1s4B
	100 mgm	50	380	0 ..		..	47	6 p1s4B
		500	3340	0 ..		..	430	0 p1s4B
	ampoules 2·5% 1 mil	10	100	0 ..		..	12	6 p1s4B
	Versitol (108 Bell)	4 oz	54	0 ..		..	6	0
		16 oz	13	6ea		..	18	0
	Vetidrex (262 CIBA) tablets	25	8	8ea		..	13	0 VSO
		100	32	8ea		..	49	0 VSO
Delete	Virules (120 BGP)							
	Virules (182 BGP)		10	10ea		8ea	21	0
	Virvina (837 MSD)	4 oz	34	0 ..		..	4	3
	Visa (Piguet) (1201 Supervite)							
	perfume (atomiser)	⅓ oz	27	6	13	9	56	6
	Vita-E (127 Bioglan)							
	gels 800 iu	100	260	0ea		..	390	0
	Vital (76 Atkinson) hair							
	conditioner		22	8	11	1	3	9
	Vitapoints (484 Fulford)		12	0	6	0	2	0
	Viules (147 Boots)							
	Hydrocortistab							
	25 mgm/1 mil	6	8	3ea		..	11	0 TS
	50 mgm/2 mils	6	16	6ea		..	22	0 TS
	heparin,							
	25000 IU/mil	single	120	0 ..		..	15	0
	Warricks (1311 Warrick) linseed, liquorice and chloro-							
	dyne lozenges	2 oz	7	6 ..		..		11
	Wellcome (208 BW)							
	aminophylline BP intramuscular							
	0·5 gm in 2 cc	5	33	9 ..		..	3	9
Delete	pack of	6	.		..	..		
	Welldorm (1154 S&N)							
	elixir	4 oz	42	0 ..		..	5	3
		dp 20 oz	180	0 ..		..		
	Whooping cough vaccine							
	(518 Glaxo)							
	ampoules ½ mil	3	36	0 ..		..	4	0
	vial 5 mils		76	6 ..		..	8	6
	Woodwards (1346 Woodward)							
	gripe water		17	8	4	3	2	3
	Wright's (1351 WLU) vaporiser		73	0 ..		..	8	2
	Wyovin (1352 Wyeth)							
	tablets	50	54	0 ..		..	6	0
	with phenobarbitone	50	63	0 ..		..	7	0†s1s4A
	Yardley (1355 Yardley)							
	hair tonic for men	2231	36	0	18	0	6	0
	eau de cologne for men	2029	97	0	48	6	16	2
	after shave lotion	2059	58	0	29	0	9	8
	Florentine lipstick case		45	0	22	6	7	6
Delete	lipstick	69	..	..		..		
	Yaxa (261 Christy)							
	deodorant stick		19	6	9	9	3	3
	mini-fragrance		75	0	37	6	12	6
	roll-on		27	0	13	6	4	6
	refills		21	0	10	6	3	6

AMENDMENTS TO KEY TO SUPPLIERS:

(76 Atkinson) = J. & E. ATKINSON, LTD., 24 Old Bond Street, Londo W.1. Hyde Park 7353.

(89 Bairant) = BAIRANT, LTD., 186 Campden Hill Road, London, W Park 7781.

(100 Beaucaire) = BEAUCAIRE LABORATORIES, Bridson Stre London, S.E.15. New Cross 7144.

(108 Bell) = BELL & SONS LTD., Gascoyne Street, Liverpool, 3. Cent 3367.

Delete (120 BCP).

(120 BGP) = B.G.P. COSMETICS, LTD., 37 Chesham Place, Londo S.W.1. Belgravia 5679.

(182 BGP) = BRITISH GLANDULAR PRODUCTS, LTD., 37 Chesh Place, London S.W.1. Belgravia 5641.

(340 C of GB) = CYANAMID OF GREAT BRITAIN LTD., Bush Hou Aldwych, London, W.C.2. Temple Bar 5411.

(350 Dana) = DANA SALES LTD., 6 Paddington Street, London, W Welbeck 2549.

(467 Fleet) = FLEET LABORATORIES LTD., 675 Mount Pleas Road, Toronto 7, Ontario, Canada.

(477 AF & B) = ALFRED FRANKS & BARTLETT CO., LTD., 2 Grays Inn Road, London, W.C.1. Terminus 9865.

Delete (491 Gevaert).

(491 GB) = GALE BAISS & CO., LTD., 274 Ilderton Street, Lond S.E.15. New Cross 0094.

(581 Haynor) = HAYNOR, LTD., 167 Greyhound Road, London, W Fulham 4343.

(614 Hoechst) = HOECHST PHARMACEUTICALS, LTD., Slough, Buc Slough 22322.

(759 L&B) = LEWIS & BURROWS LTD., 146 Holborn, London, E.C Chancery 9664.

(900 Norton) = M & R NORTON, LTD., 9 Park Hill, London, S.W Macaulay 2355.

(905 Nufoam) = NUFOAM PLASTICS LTD., 113 Clarendon Ro London, W.11. Bayswater 4123.

Delete (1004 Price).

(1004 Price) = A. S. PRICE & CO., LTD., Park Street, Blackhea Birmingham. Blackheath 2251.

(1063 Rimmel) = RIMMEL LTD., 146 New Bond Street, London, W Grosvenor 2062.

(1115 SI) = SCHICK INCORPORATED (UK) LTD., 86a Brook Stre London, W.1. Grosvenor 5559.

(1121 Searle) = G. D. SEARLE & CO., LTD., Lane End Road, Hi Wycombe, Bucks. High Wycombe 1770.

(1169 GS & S) = GEORGE SPENCER & SON LTD., Kynance Pla Gloucester Road, S.W.7. Knightsbridge 8741.

(1191 SM) = STUART MADELEY LTD., Marsh Street, Walsall. Wals 3116.

Delete (1215 Teasale).

(1215 Teasdale) = TEASDALE & CO., LTD., P.O. Box 15, South V Works. Carlisle. Carlisle 26262.

(1247 TDC) = TRICO DEVELOPMENTS CO., LTD., Great West Ro Brentford, Middlesex. Isleworth 3464.

(1320 WP) = WEST PHARMACEUTICAL CO., LTD., 9 Palmeira M sions, Church Road, Hove, 3, Sussex. Hove 772215.

(1373 Hanovia) = ENGELHARD HANOVIA, LTD., Slough, Buc Burnham 500.

Delete (1383 McNeil).

(1383 McNeil) = McNEIL LABORATORIES, LTD., High Wycom Bucks. Naphill 2264.

(1393 BRL) = BEECHAM RESEARCH LABORATORIES LTD., Gr West Road, Brentford, Middlesex. Isleworth 4111.

(1397 Ellanby) = ELLANBY LABORATORIES, LTD., 146 Holbo London, E.C.1. Chancery 9664.

(1398 GC) = GASCOIGNE-CROWTHER LTD., Lactosan Laboratori Caversham, Reading.

THIS WEEK'S CHANGES

COMMENCING with this issue, new and altered entries notifi for the first time are being given as a separate group (see p. 22

A = Advanced. *R* = Reduced.

Entries new this week are marked thus:— ●

A	**Amphetone** (1348 JW)	10 oz	60	0 ..		..		
		20 oz	108	0 ..		..		
		40 oz	16	0ea		..		
		80 oz	28	6ea		..		
A	**Barbevite** (1348 JW)	5 oz	48	0 ..		..		.. †s1s4
		20 oz	15	0ea		..		.. †s1s4
		80 oz	53	0ea		..		.. †s1s4
	Basket of Flowers (1070 Windsor)							
	toilet soap	2112	58	0	13	9		7
			gross		gross			
●	**Chesties** (1215 Teasdale)		3	4	11½			6
Delete		5 lb						
●	**Chilton** (257 Chilton)							
	Acculux rechargeable torch		..	..	..		42	0
	illuminated magnifier		..	..	..		12	4
	angle holder		..	..	..		10	0
	Accuflash		..	..	..		54	9
	equipment bag for photoflash		..	..	..		8	3
	thread counter		..	..	..		6	0
	screen plate		..	..	..		12	6
	throat spatula kit with stand		..	..	..		15	0
	dental kit with stand		..	..	..		13	6
	otoscope		..	..	..		113	4
	adaptor		..	..	..		16	8
	reading lens		..	..	..		20	6
	circuit tester		..	..	..		24	0
	spy light		..	..	..		28	6
	spare bulb		..	..	..			11
	charging adaptor		..	..	..		2	3

A	**Cumfy-Socks** (1075 R) ..	15	0	9	1	11	
	Cupal (333 Cupal)						
R	pastilles cherry bark ..	12	9	2 11	1	9	pl
R	chronic catarrh	12	9	2 11	1	9	
A	glycerin thymol	12	9	2 11	1	9	
A	Gee's linctus	12	9 ..	..	1	6	pl
A	glycerine lemon honey	12	9 ..	..	1	6	
A	glycerine blackcurrant	12	9 ..	..	1	6	
●	**Desert Flower** (1131 Shulton)						
	dusting powder ..	..	..	..	13	6	
	hand and body lotion	..	..	..	7	9	
	dispenser	..	..	..	16	6	
	purse perfume	..	..	..	12	6	
	spray cologne	..	..	..	22	6	
	talcum powder ..	..	..	..	6	6	
	toilet water	..	..	..	12	6	
A	**Didit** (1075 R)						
	insect powder puffer .. 4 oz	10	8 ..	..	1	4	
●	**Duromorph** (718 LAB)						
	ampoules 1·1 mil .. 6	81	0 ..	..	9	0	DD
[●	**Esslim** (1158 Sodastream)						
	squash	..	..	..	2	0	
●	**Fibrenyle** (461 FL) throat spray	9	3 ..	..	1	2	
●	**Humatin** (938 PD) capsules 16	40	0ea	..	60	0	TS
	100	243	4ea	..	365	0	TS
A	**Jeypeat** (671 Jeyes) compound						
	trial	24	9 ..	..	3	0	
	pack of 8	28	8 ..	..	5	6	
	pack of 4	27	0 ..	..	10	3	
	sack	24	0ea	..	36	0	
●	**Maws** (810 Maw) baby pants						
	nylon, lace covered, "Sunday"	44	0 ..	..	5	6	
	Redclo (1215 Teasdale) lozenges						
	linseed, licorice & chlorodyne	1	8	5⅝		3	
	4 lb	2	8lb	9½lb	5	0	
	Roberts Windsor (1070 Windsor)						
	Hi-White family pack 5050	154 gross	0 ..	..	1	3	
●	**Si Bon** (150 Bourjois)						
	bath crystals 9223	83	0	41 6	14	6	
	cubes (6) 9224	34	8	17 4	6	0	
	dusting powder ..9226	77	0	38 6	13	6	
	soap toilet (3) 9227	46	6	11 7½	6	9	
	talcum 9225	37	2	18 7	6	6	
R	**Silbephylline** (1138 Silten)						
	suppositories 6	41	0 ..	..	4	7	
	50	240	0 ..	..	26	8	
	tablets 1000	1224	0 ..	..	136	0	
R	**Spree** (955 Pepsodent)						
	fruit squash sachet ..	29 gross	3 ..	..		3	
	Tercolix (1348 JW) .. 5 oz	63	0 ..	..	..		
Delete	10 oz	..	..	..	..		
Delete	20 oz	..	..	..	..		
A	40 oz	31	6ea	..	..		
A	80 oz	60	6ea	..	..		
●	**Wet and Set** (220 CALG)						
	hair curling tissues ..	17	6	8 9	2	11	
●	**Yaxa** (261 Christy)						
	perfumed deodorant stick	19	6	9 9	3	3	
	perfumed roll-on ..	27	0	13 6	4	6	
	refill	21	0	10 6	3	6	
	Zap (1070 Windsor)						
	pumice soap 3000	56 gross	10 ..	..		6	

AMENDMENTS TO KEY TO SUPPLIERS:

(220 CALG)=C.A.L.G. ENTERPRISES, LTD., 34 Upper Brook Street, London, W.1. Hyde Park 0148.

(257 Chilton)=CHILTON ELECTRIC PRODUCTS, LTD., Hungerford, Berks. Hungerford 237.

(461 FL)=FIBRENYLE, LTD., 157 Dukes Road, London, W.3. Acorn 5073.

(1158 Sodastream)=SODASTREAM, LTD., 22 Oval Road, London, N.W.1. Gulliver 4421.

TRADE REPORT

he prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various harges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into ock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, AUGUST 17: In the CRUDE DRUGS' market business remained asonally quiet during the week although a number of items were firmer.

AGAR was again higher by threepence r lb. and the lack of supplies at igin resulted in a similar advance in e price of CAMPHOR. ERGOT continued advance, a current quotation from urce was 12s. per lb., c.i.f. A quotion of 75s. per lb., c.i.f., for Chinese ENTHOL was accepted. In SEEDS mer prices were quoted for some ms.

Among ESSENTIAL OILS there was a ll in the shipment price of ANISE. TRONELLA and CLOVE were both sier.

There was a continued average mand for PHARMACEUTICAL CHEMILS but no price changes were reported.

Pharmaceutical Chemicals

ACETIC ACID.—B.P. glacial, 10-ton lots, 12 per ton naked; technical (80 per nt.) £97. Carboys are £8 and demijohns,) per ton extra. Single carboy lots 8d. per lb. (3s. 8d. per kilo).

ADRENALINE.—(Per gm.). Synthetic B.P. ilo lots, 11d.; 500 gm., 1s. 1d. ACID RTRATE, B.P., 1 kilo, 7½d.; 500 gm., 9d.

ANTIMONY SALTS.—CHLORIDE SOL., B.P.C., 34, carboys, 2s. 6½d. lb; OXIDE, B.P.C., lb. One-cwt. lots. POTASSIUM TARATE, 7s. 6d. per lb.; SODIUM TARTRATE, . 6d.

ASPIRIN. — 5-cwt. lots (in kegs), 4s. 9d. lb.; 1-cwt., 4s. 11d. CALCIUM SALT, . 6d. per lb.

BENTONITE.—B.P. about £770 per ton.

BENZOIC ACID.—One cwt., 2s. 11½d. per ; and SODIUM SALT, 2s. 9½d. per lb.

BISMUTH SALTS. — Prices (per lb.) in ckages over 2-lb.:—

	28 lb. to 1 cwt.		1 cwt.		5 cwt.	
	s.	*d.*	*s.*	*d.*	*s.*	*d.*
BONATE ..	20	6	20	0	19	6
ICYLATE ..	20	3	19	9	19	3
GALLATE ..	19	9	19	3	18	9
NITRATE ..	18	6	18	0	17	6

BROMIDES.—Crystals (per lb.):—

	1 cwt.		5 cwt.	
	s.	*d.*	*s.*	*d.*
POTASSIUM	2	6	2	5
SODIUM	2	6	2	5
AMMONIUM	2	10	2	8½

Powder is three-halfpence per lb. more, packages free, carriage paid terms.

BRUCINE. — ALKALOID and SULPHATE 100-oz. lots, 10s. 6d. per oz.

CHLORAL HYDRATE. — One-cwt. lots, 4s. 6d. per lb.

CHLOROFORM.—1-cwt. lots in winchesters, 3s. 4½d. per lb.; 56-lb., 3s. 6d. In drums, 3s. 2d. and 3s. 2½d. per lb. respectively.

CHLOROXYLENOL.—B.P., 5s. 8d. per lb. for 1-cwt. lots: 5s. 3d. per lb. for 1-ton.

CREAM OF TARTAR.—Home trade:—1-ton lots, 241s. per cwt.; 10-cwt., 242s.; 5–9-cwt., 243s.; 2–4 cwt., 244s.; 1-cwt., 245s. (If supplied in bags deduct 5s.)

HOMATROPINE. — 16-oz. lots (per oz.): ALKALOID, 30s. 6d.; HYDROBROMIDE, 24s. 6d.; HYDROCHLORIDE, 28s. 6d.; METHYLBROMIDE, 25s. 6d. 1-oz. rates are 1s. 6d. per oz. above those rates.

HYDROQUINONE. — One-cwt. lots, 11s.; 1-ton, 9s. per lb.

IODINE.—Resublimed in 50-kilo lots or over, 23s. 1d. per kilo. Minimum delivered rate for CRUDE is 15s. per kilo.

IRON SALTS.—GLUCONATE, B.P.C., 6s. 3d. per lb. in 1-cwt. lots; SULPHATE, B.P., crystals, 9½d. per lb. in 28-lb. lots; 1-cwt., 57s. 6d. per cwt., 5-cwt., 52s. 6d. per cwt.; SULPHATE EXSICCATED, 1s. 5d. per lb. for 28-lb., 1-cwt., 123s.; 5-cwt., 113s. per cwt., 1-cwt. fibre kegs free. Other packages extra. PHOSPHATE, B.P.C., 28-lb., 3s. 6d. per lb.; 1-cwt., 3s. 3d. PHOSPHATE, SACCHARATED, B.P.C., 28-lb. lots are 3s. 9d. per lb.; 1-cwt. 3s. 6d. OXIDE RED PRECIPITATED, B.P.C., 1949, 1-cwt. 2s. 1d. per lb.; CARBONATE, SACCHARATED, B.P.C., 1949, 28-lb., 3s. 3d.; 1-cwt., 3s. AMMONIUM CITRATE, scales 3s. 6d. per lb. (5-cwt. lots). AMMONIUM SULPHATE, 1-cwt., 1s. 10d. per lb. QUININE CITRATE, 2s. 1d. per oz. in 100-oz. tin.

LACTATES. — CALCIUM, B.P., 2s. 3d. per lb. in 5-cwt. lots and 2s. 4d. in 1-cwt. lots; CALCIUM SODIUM, 4s. 9d. and 4s. 10d. per lb.

LACTOSE. — B.P., in 1-ton lots packed in 1-cwt. paper-lined sacks, £129 10s. per ton, delivered in the United Kingdom.

LEAD ACETATE.—B.P. crystals, 225s. per cwt.

METHOIN.—B.P., 120s. per lb.

METHYL PHENOBARBITONE. — B.P.C., 95s. per kilo for less than 25-kilo lots.

OLEIC ACID.—B.P. grade, £170 10s. per ton (£174 10s. single drum lots); 1 gall. tins 21s. per gall.

OXALIC ACID. — Manufacturers' rates for 1-ton lots, £128 10s. per ton, delivered in free kegs.

PARACETAMOL.—Minimum 10-cwt., 10s., per lb.; 56-lb., 10s. 3d.

PARAFFINS. — Prices to wholesale distributors are:— *Liquid:* HEAVY, B.P., £102 2s. 6d. per ton; LIGHT B.P., £84; *Technical White oils,* £75 10s. for the LIGHT and £89 for the MEDIUM. All in 40–50 gall. returnable loaned drums, delivered U.K. *Soft:* WHITE, medium consistency is £110 15s. per ton and soft consistency £107 7s. 6d. Yellow, £88 10s., all B.P., in non-returnable drums delivered.

PHENACETIN.—B.P. one-ton lots, 6s. 3d. per lb.; 1-cwt., 6s. 6d.

PHENYTOIN SODIUM.—One-cwt. lots 23s. per lb.; less than 56-lb., 25s.

POTASH SULPHURATED. — Lump, B.P.C., 2s. 6d. per lb. in 1-cwt. lots.

POTASSIUM ACETATE. — (Per lb.) 1-cwt. lots, 3s.; 5-cwt., 2s. 8d.; 10-cwt., 2s. 6d.

RESORCINOL.—One-cwt. lots, 12s. 4d. per lb.

SILVER SALTS. — PROTEIN, 1-cwt. lots, 8 per cent., 36s. 3d. per lb.; VITELLIN, 68s. 6d.

SODIUM METABISULPHITE. — Granular, 1-cwt. lots, 9d. per lb.

SODIUM SULPHATE.—B.P. from £12 10s. to £19 17s. 6d. per ton as to crystal and quantity, ex works.

UREA.—Pharmaceutical grade, £60 10s. per ton in 1-cwt. bags non-returnable; technical quality, £42 per ton (4-ton lots).

Crude Drugs

ACONITE. — Spot: Spanish *napellus*, 2s. 6d. per lb.

AGAR.—Kobe No. 1, 15s. 9d. to 16s. per lb., in bond.

ALOES. — Cape primes, spot, 175s. per cwt., extra quality 180s. quoted; shipment, 152s. 6d., c.i.f.; extra qualities, 155s., c.i.f. Curaçao, 480s., spot.

BELLADONNA. — LEAVES (t.a. 0·6 per cent.), 2s. 9d. per lb. Dutch for shipment, 2s., c.i.f. ROOT cleared on the spot.

BENZOIN. — Sumatra block, spot £22 to £30 as to quality.

BUCHU. — Spot rounds, 3s. 6d. per lb. shipment, 3s. 1d., c.i.f.

CALABAR BEANS.—Spot, 2s. 3d. per lb.

CALAMUS.—Root, 1s. 2d. per lb., c.i.f.

CALUMBA.—Root, 100s. per cwt., spot, 87s. 6d., c.i.f.

CAMPHOR.—B.P. powder, 3s. 10½d. per lb. in bond.

CAPSICUMS.—Chinese 155s., duty paid.

CARDAMOMS. — Aleppy greens, spot, 15s. 6d. per lb.; prompt shipment, 14s., c.i.f. Seeds, shipment, 20s. 6d., c.i.f.

CASCARA.—Spot, 290s., per cwt.; prompt shipment, 275s., c.i.f.; 1960 peel, 235s., c.i.f.

CASSIA. — *Fistula*, 115s. per cwt., spot; *lignea*, 380s., duty paid.

CHERRY BARK. — Thin natural, 1s. 9d. per lb.; rossed, 1s. 11d.

CLOVES.—Zanzibar spot, 2s. 9d. per lb.; shipment, 2s. 5¼d., c.i.f.

COCHINEAL.—Black-brilliant, 12s. 9d. per lb., spot; Peruvian silver-grey, 4s. 6d.

COCILLANA.—Bark, 2s. per lb., spot.

COLOCYNTH PULP.—Spot, 2s. to 2s. 6d. per lb. as to quality.

DIGITALIS. — *Purpurea* for shipment, 1s. 2½d. to 2s. 7d. per lb., c.i.f., as to test.

ERGOT. — Scarce. Portuguese, nominally 12s. per lb., c.i.f. East European not offering.

FRANGULA.—Spot, 105s. per cwt.

GENTIAN.—Spot: French, 155s. per cwt.

GINGER. — African, spot, 240s. and 225s., c.i.f. Jamaican No. 3, spot, 210s.; shipment, 195s., c.i.f. Cochin, shipment, new crop, 162s. 6d., c.i.f.; spot, 185s. (per cwt.).

GUM ACACIA. — Kordofan cleaned sorts, 170s. per cwt., spot; August–September shipment, 160s., c.i.f.

HENNA.—Indian, spot, 90s. per cwt.

HONEY.—Australian light amber, 95s. to 97s. 6d. per cwt. and medium amber 90s. to 95s.; Argentine, 100s. to 102s. 6d.; Jamaican, 110s. to 115s.; Canadian clover, 145s. to 150s., all ex warehouse.

IPECACUANHA. — Matto Grosso 51s. per lb., c.i.f. Colombian, 53s., c.i.f. Costa Rican, 71s. 6d., c.i.f. Spot: Matto Grosso, 53s. 9d.; Colombian, 55s. 6d.

JUNIPER BERRIES.—Italian, 90s. per cwt.

KOLA NUTS. — Jamaican for shipment, 7d. per lb., c.i.f. African, 5½d. spot and 4d., c.i.f.

LANOLIN. — ANHYDROUS, B.P., is from 170s. to 175s. per cwt. in 1-ton lots and HYDROUS, B.P., 150s., free drums, delivered.

LEMON PEEL. — Spot, 2s. 6d. per lb.; shipment, 230s., c.i.f.

LINSEED. — Whole, 85s. per cwt.; crushed, 110s.

LIQUORICE. — Natural root: Persian on the spot, 46s. 6d. per cwt. Block juice: Anatolian from 190s. per cwt.; Italian stick from 310s. to 470s. per cwt.

LOBELIA HERB. — American, 4s. 9d. per lb., spot.

MACE. — Whole pale blade, 24s. per lb. spot; 22s., f.o.b.

MENTHOL. — Chinese: market nominal; shipment, 75s., c.i.f. Brazilian, 58s. 6d., in bond; 58s. 6d., c.i.f.; Formosan, 58s. 6d., duty paid (56s. in bond).

NUTMEGS. — West Indian 80's 12s. per lb., spot; sound unassorted, 9s. 6d.; defectives, 7s. 4½d.

NUX VOMICA.—Spot, 125s., cwt.; shipment, 105s., c.i.f.

ORRIS ROOT.—Florentine, 350s. per cwt.

PAPAIN. — Tanganyikan, 11s. 6d. per lb., c.i.f., for grade one, spot, 12s. 6d. Ceylon, No. 1 white, 12s., c.i.f.; brown, 10s., c.i.f.

PEPPER. — White Sarawak on spot is 6s. 3d. to 6s. 4½d. per lb.; August shipment 6s., c.i.f. Black Sarawak spot, 4s 8d. August–September, shipment, 3s. 11½d., c.i.f. Black Malabar on spot is nominal 525s. per cwt., c.i.f.

PEPPERMINT LEAVES. — Dutch whole, 1s. 11d. to 2s. 7d. per lb., c.i.f.

PIMENTO.—Spot, 590s. cwt.; shipment, 500s., f.o.b.

PODOPHYLLUM. — *Emodi*, 200s. per cwt. spot, and 185s., c.i.f., for shipment, *Peltatum*, spot value, 375s.

PYRETHRUM.—Extract, minimum, 25 per cent. w/w pyrethrins, 75s. per lb. for small lots.

QUASSIA. — Spot, 55s. per cwt., ex wharf.

QUILLAIA.—Short. Afloat, 147s. 6d. per cwt.; shipment, 145s., nominal. Spot cleared.

RHUBARB. — Chinese small round from 5s. 9d. to 6s. 9d. per lb. on the spot.

SAFFRON.—Mancha selecta, 147s. 6d. per lb.

SARSAPARILLA.—Jamaican native red on spot, 2s. 5d. per lb.; shipment, 2s. 1d., c.i.f., nominal.

SEEDS. — (Per cwt.). ANISE.—Spanish, 160s., duty paid. CARAWAY.—Dutch, 180s., duty paid. CELERY.—Indian 140s., spot; shipment dearer at 125s., c.i.f. CORIANDER. —Moroccan have increased to 72s., duty paid; shipment now quoted at 65s., c.i.f. CUMIN.—Indian 210s. spot; shipment, 190s., c.i.f. Iranian 220s., duty paid. DILL. — Indian, 100s. spot; shipment, 92s. 6d., c.i.f., quoted. FENNEL.—Chinese 105s., duty paid, Indian, 125s. FENUGREEK. —Moroccan, 55s., duty paid; shipment, 44s. 6d., c.i.f., quoted. MUSTARD. — English 85s. to 97s. 6d., according to quality.

SENEGA. — Spot nominally 24s. per lb.; shipment, 21s. 6d., c.i.f.

SENNA. — *Tinnevelly* LEAVES, prime No. 1, 1s. 5d. per lb., f.a.q.; No. 3, 9d. PODS: Manufacturing (f.a.q.), 9d. and hand-picked, 1s. 6d. to 1s. 10d. *Alexandria* pods: Manufacturing, 1s. 6d.; new crop hand-picked, 4s. 6d. to 7s.

SHELLAC.—F.O.T.N., 202s. 6d. per cwt.; No. 1, 225s.; F.O., 235s. to 285s., spot.

SQUILL.—White 85s. per cwt., spot.

STRAMONIUM. — Indian LEAVES 60s. per cwt., spot. Dutch 0·5 per cent. alkaloid 93s., c.i.f.

STYRAX. — Spot, 33s. per lb., shipment, 31s., c.i.f.

TONQUIN BEANS.—Para spot, 7s. 9d. per lb. Angostura 11s.

TRAGACANTH. — No. 1 ribbon, £135 to £140 per cwt. No. 2, £125 to £130.

TURMERIC. — Madras finger on spot is 105s. per cwt.; shipment, 100s., c.i.f., quoted.

VALERIAN ROOT. — Spot: Indian (with rootlets), 130s. Belgian, whole (max. 2½ per cent. sand) for prompt shipment, 145s., c.i.f. Dutch old crop cleared; new-crop prices awaited.

VANILLIN.—Rates (per lb.) are now:— 5-cwt. lots, 23s. 3d.; 1-cwt., 23s. 6d.; 56-lb., 23s. 9d.; smaller quantities, 24s.

Essential and Expressed Oils

ALMOND. — Moroccan, 6s. per lb., du paid.

ANISE.—Chinese, 7s. per lb., spot; shi ment, 6s. 6d., c.i.f.

ARACHIS.—Spot, 2–5-ton lots naked mill, £142 per ton.

BERGAMOT.—Spot, from 72s. 6d. per

BOIS DE ROSE.—Brazilian, 15s. 3d. lb. on the spot and 14s. 9d., c.i.f.

CAJUPUT.—Spot from 9s. per lb.

CAMPHOR, WHITE.—Chinese, 1s. 8d. lb. in bond.; 1s. 5d., c.i.f.

CARAWAY. — Imported oil, 26s. 6d. 37s. 6d. per lb.

CARDAMOM. — From 330s. per lb. English-distilled and 260s. for imported.

CASTOR.—Home-produced B.P. oil, sp £158 per ton naked ex mill (2-ton lots).

CEDARWOOD.—American rectified, 6s. per lb. on the spot.

CELERY SEED. — Dutch oil, 90s. per and Chinese, 65s.

CINNAMON. — From quillings, best En lish-distilled is 50s. per oz.; other B.P. from 165s. per lb. Ceylon leaf, sp 9s. 6d. per lb.; rectified, 10s. 6d. per lb Seychelles, 10s. 6d., spot.

CITRONELLA. — Ceylon, spot, 6s. 6 shipment, 6s. 3d. per lb., c.i.f. Formos spot, 6s. 6d., in bond; shipment, 6s. 3 c.i.f.

CLOVE.—Madagascar leaf, spot, 8s. 1 per lb., duty paid; shipment, 7s., c. Rectified 87–88 per cent., 12s. Distil bud-oil, English, B.P., 30s. to 31s.

CORIANDER.—B.P. oil, 52s. 6d. per spot.

CUMIN.—Imported oil, 90s. per lb.

DILL.—Imported, 26s. 6d. per lb., sp

EUCALYPTUS.—Australian 70 and 75 cent. eucalyptol on the spot is 5s. 3d. lb. 80–85 per cent., 5s. 6d. Spanish (70–7 3s. 6d. spot. Chinese 3s. to 3s. 6d., d paid.

FENNEL. — Spanish sweet, spot, 1 per lb.

GERANIUM. — Bourbon, 190s. to 20 per lb. on the spot.

GINGER.—Imported: Jamaican, 130s. lb; Chinese, 72s. 6d., duty paid.

LAVANDIN.—Spot from 6s. per lb. original drums.

LAVENDER.—From 24s. to 37s. 6d. lb. as to quality.

LAVENDER SPIKE.—Spanish, 13s. 9d. lb for original drums.

LEMON.—B.P. grades from 12s. 6d. lb., spot; Sicilian, 25s. 6d. Terpenel 500s. per lb.

LEMONGRASS. — Spot, 13s. 3d. per and shipment, August–September, 12s. c.i.f.

LIME. — West Indian distilled, 51s. lb. on the spot.

PATCHOULI. — Penang is 40s., duty p and 36s. 6d., c.i.f., per lb.

PETITGRAIN.—Paraguay, 18s. 6d. per spot; shipment, 17s. 9d., c.i.f.

SAGE.—Spanish, 8s. per lb.

SASSAFRAS.—Brazilian is from 3s. 6d. lb., duty paid.

SPEARMINT.—American oil from 50s. lb. Chinese, 45s., c.i.f.

TANGERINE.—From 17s. 6d. to 26s. lb., as to quality, spot.

YLANG YLANG.—Spot, 37s. 6d. per lb

UNITED STATES REPORT

NEW YORK, AUGUST 16: Dema for most FINE CHEMICALS contin seasonally slow. Major manufactur reduced prices of the tetracycline gro of antibiotics by 15 per cent. Th were no price changes for CRU DRUGS.

TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," August 10

r preparations and substances for laundry use

DYLON WASH 'N WHITE, 796,260, by May-orn Products, Ltd., London, S.E.26.

r perfumes, non-medicated toilet preparations, metics, hair lotions, eau de Cologne, soaps d shampoos (3)

Device, 796,763, by Firmenich et Cie, Geneva, witzerland.

r cosmetic preparations, lipsticks, perfumes, d non-medicated toilet preparations; shampoos, ps; and bath salts and bath essences (3)

OUR DE MADAME, 800,772, by Rimmel, td., London, W.1.

r perfumes, toilet preparations (not medicated), metics preparations, dentifrices, depilatory pre-rations, toilet articles (not included in other sses), sachets for use in waving the hair, soaps d essential oils (3)

NO-FLO, 802,658, by Cussons, Sons & Co., td., Kersal, Manchester, 7.

r detergents (not for use in industrial or manu-turing processes) (3)

LAIR, 803,366, by Co-operative Wholesale ociety, Ltd., Manchester.

r pharmaceutical tonic preparations (5)

Device with letter V, 787,806, by M. & J. teiner, Ltd., London, W.9.

r pharmaceutical preparations (5)

OLAIDS, 789,928, by American Chicle Co., ong Island City, New York, U.S.A.

all goods (5)

NTROZAINE, 796,203, by Calmic, Ltd., rewe, Ches. TYORDAC, 796,916, by Dales harmaceuticals, Ltd., Steeton, near Keighley, orks. LIQUINURE, 797,192, by Liquinure ales, Ltd., Boreham Wood, Herts. SYM-OSED, 799,542, Wellcome Foundation, Ltd., ondon, N.W.1. DEFLEXOL, 804,064, by aboratoires Millot, Paris-VIIIe, France.

preparations containing hormones for use in atment of the thyroid gland (5)

HYBON, 796,430, by Farbwerke Hoechst, .G., vormals Meister Lucius & Brüning, rankfort-on-Main-Hoechst, Germany.

pharmaceutical preparations and substances use in the treatment of nervous disorders (5)

RMYNS, 799,193, by Horace Steven Coaker, adybrand, Union of South Africa.

preparations for the destruction of animals plants, and pesticides, parasiticides and in-icides (5)

CRICID, 800, 515, by Farbwerke Hoechst, .G., vormals Meister Lucius & Brüning, rankfort-on-Main-Hoechst, Germany.

sanitary substances for use in cats' sanitary s (5)

ATLIT, 800,860, by Armitage Brothers, Ltd., ottingham.

pharmaceutical preparations for the treatment ural infections (5)

URACET, 801,178, by Ward, Blenkinsop & o., Ltd., London, W.C.1.

pharmaceutical preparations and substances human and veterinary use; and sanitary sub-ces and disinfectants (5)

EMICIDE, 801,872, by Imperial Chemical dustries, Ltd., London, S.W.1.

adhesive surgical dressings, bandages for sings, cotton wool (pharmaceutical) and lint medical purposes (5)

ERFECTOPLAST, 802,917, by Julian Singer, lasgow, S.1.

insecticides (5)

ISYSTON, 804,137, by Farbenfabriken Bayer, .G., Leverkusen (22c), Germany.

safety-razor blades (8)

evice with words MARGO BLUE, B795,471, y Steel Products, Ltd., Carlow, Republic of eland.

camera stands (9)

TABILO, 796,442, by Kuerbi & Niggeloh, adevormwald, Rhineland, Germany.

photographic instruments and apparatus and s and fittings (9)

evices, 800,892, by Coronet, Ltd., Birming-m, 19.

photographic and cinematographic apparatus instruments, and parts and fittings for all e goods; projection screens (9)

LUMENTA, 801,789, by Agfa, A.G., Leverkusen, Germany.

For electrically heated blankets (10)

ZODIAC, 799,654, by Denhams (Norwich), Ltd., London, W.3.

For stoppers (20)

PLUG-A-VAC, 798,274, by British Vacuum Flask Co., Ltd., London, W.C.1.

For soap dispensers, cabinets for dispensing of cloth and of paper towels; metal containers for toilet articles (21)

STEINER, 802,565, by Steiner, London, W.1.

For bathing caps made of rubber (25)

CORONET, 796,870, by William Freeman & Co., Ltd., Barnsley, Yorks.

PATENTS

COMPLETE SPECIFICATIONS ACCEPTED

From the "Official Journal (Patents)," August 10

Recovery of antihaemophilic factor from blood. National Research Development Corporation. 850,795.

α,α[Cp-chlorophenyl-(4-pyridyl)] carbinols and method of preparing same. Maggioni & C. S.p.A. 850,298.

Pyrimidine derivatives. May & Baker, Ltd. 850,483.

Steroids and the manufacture thereof. Upjohn Co. 850,833.

Phenoxazine derivatives and preparation thereof. C. Pfizer & Co., Inc. 850,334.

Diagnostic composition. Cilag-Chemie, Ltd., formerly Cilag, Ltd. 850,426.

Phenthiazine derivatives. Soc. des Usines Chimiques Rhone-Poulenc. 850,431.

Cosmetic products. Orec. 850,436.

Purification of nystatin. Olin Mathieson Chemical Corporation. 850,388.

Production of a new antibiotic flavenomycin. Montecaline Soc. Generale per L'Industria Mineraria E. Chimica. 850,325.

Salts of ristocetin A and their preparation. Abbott Laboratories. 850,408.

Preparation of streptomycin. C. Pfizer & Co. 850,351.

Novobiocin and dihydronovobiocin. Merck & Co., Inc. 850,240.

Vitamin A aldehyde derivatives and processes for their preparation. Takeda Pharmaceutical Industries, Ltd. 850,475.

Manufacture of polyene aldehydes and aldehydes. F. Hoffmann-La Roche & Co., A.G. 850,501.

Process for the production of acids of the vitamin A series. Farbenfabriken Bayer, A.G. 850,208.

Hydroy-halogen-pregnenes and process for their manufacture. CIBA, Ltd. 850,368.

Steroid compounds. Merck & Co., Ltd., 850,734.

Cyclopentanophenanthrene derivatives and processes for the production thereof. Syntex, S.A. 850,386.

6-methyl steroid compounds. The British Drug Houses, Ltd. 850,424.

Process for the preparation of 11-hydroxy-steroids. Organon Laboratories, Ltd. 850,263.

Steroid compounds. Merck & Co., Inc. 850,735.

Processes for the manufacture of steroid derivatives and new steroid derivatives. Schering, A.G. 850,447.

Roachicidal composition. Dainippon Jochugiku Kabushiki Kaisha. 850,376.

Halogenated cyclic ethers useful as insecticides and process for preparing same. Velsicol Chemical Corporation. 850,506.

Catamenial bandage support. O. M. Case, 850,679.

British patent specifications are obtainable (price 3s. 6d. each) from the Patent Office, 23 Southampton Buildings, Chancery Lane, London, W.C.2.

CONTEMPORARY THEMES

Subjects of contributions in current medical and technical periodicals.

BARBITURATE POISONING, severe acute, treatment of by forced diuresis and alkalinisation of the urine, *Lancet*, August 13.

FORMIMINOGLUTAMIC ACID, simplified method for detecting in urine as a test of folic-acid deficiency, *Lancet*, August 13.

PHENINDIONE, idiosyncrasy to, *Brit. med. J.*, August 13.

PETHIDINE, dangerous potentiation of, by iproniazid, and its treatment, *Brit. med. J.*, August 13.

CHLORPROMAZINE and allied phenothiazine derivatives, *Brit. med. J.*, August 13.

POTASSIUM PERCHLORATE in thyrotoxicosis, *Brit. med. J.*, August 13.

ANTIFUNGAL PROPERTIES of essential oil vapours, *S.P.C.*, August.

OIL-IN-WATER CREAMS and milks, theoretical aspects of the formulation of, *S.P.C.*, August.

TETRA-SUBSTITUTED SULPHUR, optically active forms of a derivative of, *Nature*, August 13.

CYCLIC ETHERS, a new method for the synthesis of, *Nature*, August 13.

ANTIBIOTICS, structure of the, *Nature*, August 13.

BENZOTHIADIZINE, a potent new diuretic, *Nature*, August 13.

GLYCYRRHETINIC ACID, antileukæmic activity of, *Nature*, August 13.

CYSTEINE, protective effect of, against retinal degeneration induced by iodate and by iodoacetate, *Nature*, August 13.

SALICYLATE, anti-inflammatory activity of, *Nature*, August 13.

PHARMACOLOGY, research in, *Amer. J. Hosp. Pharm.*, July.

SAFETY CLOSURE for medicinal containers, *Amer. J. Hosp. Pharm.*, July.

THIOLACTIC ACID, a cold permanent wave based on, *Amer. Perf.*, July.

LANOLIN derivatives, *Amer. Perf.*, July.

MEDICATED COSMETICS, *Amer. Perf.*, July.

ISOLATION of an unidentified agent from the respiratory tract of chickens, *Science*, July 29.

AMINOTRIAZOLE, antithyroid effects of, *Science*, July 29.

OXYTOCIN, new test for the biological assay of, *Science*, July 29.

EATING OR DRINKING elicited by direct adrenergic or cholinergic stimulation of hypothalamus, *Science*, July 29.

CANINE EYE, diseases of the, *Vet. Rec.*, August 13.

BLOOD COUNTS and long-term antibiotic therapy, *J. Amer. med. Ass.*, July 30.

PEPTIC ULCER, activation of, by nicotinic acid, *J. Amer. med. Ass.*, July 30.

PSORALENS, use and abuse of, *J. Amer. med. Ass.*, July 30.

AMERICAN LISTED DRUGS

DEANOL ACETAMIDOBENZOATE (Deaner).—*Chemically:* p-acetamidobenzoic acid salt of 2-dimethylaminoethanol. A drug producing a mood-alleviating effect and indicated in the treatment of chronic fatigue, neurasthenia and neurotic depression. *Data supplied by* Riker Laboratories, Inc.

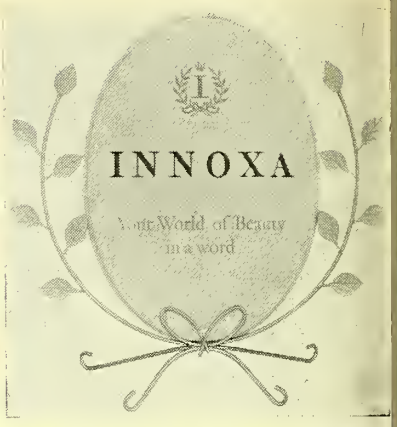
METHOXYPROMAZINE MALEATE (Tentone maleate). — *Chemically:* 2-methoxy-10-(3′-dimethylaminopropyl) phenothiazine maleate. Action is to alleviate anxiety and agitation and suppress aggressiveness. Available as 10-mgm., 25-mgm. and 50-mgm. tablets. *Data supplied by* Lederle Laboratories division, American Cyanamid Co.

PHENFORMIN HYDROCHLORIDE (DBI) — *Chemically:* N′-β-phenethylbiquanide hydrochloride. An orally effective hypoglycæmic agent used in the management of diabetes mellitus and available as 25-mgm. tablets. *Data supplied by* U.S. Vitamin and Pharmaceutical Corporation (division of Arlington-Funk Laboratories).

ETHOHEPTAZINE CITRATE (Zactane citrate). —*Chemically:* 1-methyl-4-carbethoxy-4-phenylhexamethylenimine citrate. A moderately potent, non-narcotic analgesic given orally in doses of 75-150 mgm., three or four times daily. Larger doses may produce side-effects. Available as 75-mgm. tablets. *Data supplied by* Wyeth Laboratories division of American Home Products Corporation.

TRIMETHIDINIUM METHOSULPHATE (Ostensin). — *Chemically:* d-[-Methyl-N-(γ-trimethylammoniumpropyl)] - 1 - methyl - 8,8 - dimethyl-3-azabicyclo(3.2.1) octane dimethosulphate. An autonomic ganglion blocking agent intended to be restricted to moderate to severe cases of diastolic hypertension that have failed to respond to less severe therapy. Available as 20-mgm. and 40-mgm. tablets. *Data supplied by* Wyeth Laboratories division of American Home Products Corporation.

DISPLAY MATERIAL: At left, a counter display, and at right, a counter display-card, for the Otto of Flowers preparations by Roberts Windsor, Ltd., The Acre, Windsor, Berks.



POINT-OF-SALE UNIT: The wood and wi point-of-sale unit shown here was made f numerous export as well as home outlets. Simpl city was therefore the keynote. The unit is little under 12 in. tall. Style, wording and colo scheme are economical but effective. The un was designed and made for Innoxa (England Ltd., 1 Eden Street, London, N.W.1, by Léo Goodman Displays, Ltd., 10 Cork Street, Lon don, W.1.

PRINT AND PUBLICITY

PRESS ADVERTISING

NEWTON, CHAMBERS & CO., LTD., Thorncliffe, Sheffield: Izal toilet rolls. In *Woman's Own, Woman's Realm, Woman's Illustrated* and *Woman's Weekly*. Polly Roll. In *Woman, Woman's Own* and *Woman's Realm*. Sanizal. In *The People, The Viewer*, and provincial Press.

RIMMEL, LTD., 146 New Bond Street, London, W.1: H.E. for His Excellency. In *Evening News, Evening Standard* and *The Star* during coming months.

ROSEDALE (PRODUCTS), LTD., 111 Clarence Road, London, E.5: Lanospray. In *Daily Mirror, Daily Sketch, Woman's Mirror, Woman's Day*, and *Date*. Rosedale bubble bath. In *Daily Mirror, Daily Sketch, Woman's Mirror, Date* and *Honey*.

THERMEGA, LTD., 37 Thurloe Street, London, S.W.7: Thermega electric blankets. In national and provincial Press during coming months.

WRIGHT, LAYMAN & UMNEY, LTD., 42 Southwark Street, London, S.E.1: Wright's coal tar soap. In *Sunday Express*.

PUBLICATIONS

Booklets and Leaflets

A. BOAKE, ROBERTS & CO., LTD., Carpenters Road, London, E.15: "Abrac emulsifying agents for cosmetic and pharmaceutical preparations." Pp. 6. "Abrac acetoglycerides," Pp. 14. "The use of iso-propyl fatty acid esters in cosmetics." Pp. 18. "Abrac metallic stearates in cosmetics." Pp. 11.

Periodicals

DURAZONE (SALES), LTD., Lovers' Walk, Ballards Lane, London, N.3: "Aerosol World." Pp. 4.

Price Lists

CIBA LABORATORIES, LTD., Horsham, Sussex: Correction sheet.

COTY (ENGLAND), LTD., Coty House, 3 Stratford Place, London, W.1: July 1960.

Medical Propaganda

Manufacturers' leaflets, folders, booklets, etc., directed to doctors but available to pharmacists.

BOOTS PURE DRUG CO., LTD., Station Street, Nottingham: "Fenox nasal spray" (4-p. folder).

BRITISH SCHERING, LTD., 229 Kensington High Street, London, W.8: "Neutradonna" (4-p. folder and diet sheets).

CAMDEN CHEMICAL CO., LTD., 61 Gray's Inn Road, London, W.C.1: "Disipal in the Management of Dizziness" (4-p. folder), "Disipal in Parkinsonism" (8-p. booklet), "Disipal in Psychiatric Practice" (8-p. booklet).

CIBA LABORATORIES, LTD., Horsham, Sussex: "Serpasil-Esidrex and Serpasil-Esidrex K" (4-p. folder).

ORGANON LABORATORIES, LTD., Brettenham House, Lancaster Place, London, W.C.2: "Gestanin—the new oral progestogen" (8-p. booklet).

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: "Stemetil" (blotter), "Streptotriad" (4-p. folder).

POSTERS ON NUTRITION: Three new posters available free of charge from Vitamins, Ltd., Upper Mall, London, W.6. From the left, they take the form of a weight reduction chart (giving details of diet); a diagrammatic illustration of wheat, and its structure, etc.; and a chart for athletes, entitled "Eat to Win," showing the important functions of certain foods in the athlete's diet.

TELEVISION

Figures in the columns represent number appearances of the product during the wee

August 28 to September 3	London	Midland	North	Scotland	Wales	South	N.E.	Anglia
Alka-Seltzer ..	3	3	4	3	3	3	3	4
Anadin	4	2	2	7	7	6	6	5
Askit	—	—	—	12	—	—	—	—
Aspro	8	—	3	—	11	—	—	—
Beecham's pills ..	2	2	2	2	2	2	2	1
powders	2	3	—	2	3	4	1	—
Bisodol	—	6	4	7	2	3	4	4
Bristow's lanolin shampoo	—	—	1	—	—	—	—	—
Cooper's aerosols ..	1	2	1	1	1	2	1	2
Cuticura	—	2	2	—	—	—	—	—
Delsey	2	3	5	—	4	5	—	5
Dristan	—	1	—	—	—	—	—	—
Eno's Fruit Salt ..	4	2	2	3	2	3	—	5
Euthymol tooth-paste	—	—	—	—	—	—	—	1
Flit aerosol	5	5	5	4	4	4	5	4
Freezone	—	—	—	—	—	—	1	—
Fynnon salt	3	1	1	1	—	1	1	—
Germolene	2	4	1	3	—	—	3	—
Gillette blades ..	1	1	2	1	2	1	2	1
razors	2	2	2	2	2	2	3	2
Hi-Glo shampoo ..	3	3	3	—	3	3	3	—
Immac	1	1	2	—	1	1	1	—
Ingram shaving cream	1	—	—	3	—	2	1	1
K2r spot remover ..	—	2	—	—	—	5	—	—
Kleenex	—	—	—	—	—	—	1	—
Klik	—	3	—	—	5	—	—	—
Lanospray	3	2	2	2	2	3	3	3
Max Factor	—	1	1	1	1	1	1	1
Medac	—	1	—	—	—	—	—	—
Mix-A-Shake ..	—	—	—	—	—	3	—	—
Mum rollette ..	1	—	—	—	—	—	1	1
Phosferine	1	—	—	—	—	—	—	—
Phyllosan	—	1	1	—	—	2	2	1
Radox	—	—	—	—	—	2	—	2
Remington shaver ..	—	—	1	1	1	—	—	—
Rennies	1	2	1	1	—	—	—	1
Rinstead pastilles ..	1	—	—	1	1	1	2	—
Rivella	2	—	—	—	—	—	—	—
ScotTowels	3	—	—	—	—	—	—	—
Sebbix shampoo ..	3	2	2	2	2	4	2	2
Sek	—	1	—	—	—	—	1	—
Setlers	4	1	2	—	2	3	2	—
Silvikrin hair cream	6	1	—	—	—	—	—	—
Spontex car sponges	3	—	—	—	—	3	—	—
Star Spray	1	—	—	—	—	—	—	—
Winspray products .	—	3	—	—	—	3	—	—
Yeast-vite	1	—	—	—	—	1	—	1
Zal	5	2	3	3	1	3	2	2
Zoflora	—	—	—	1	—	—	—	—

Unique Christmas offer from Heinz

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These charming Christmas cards with mother's favourite picture of baby are being offered to your customers in return for three Heinz Baby Foods labels and 7s. 0d.

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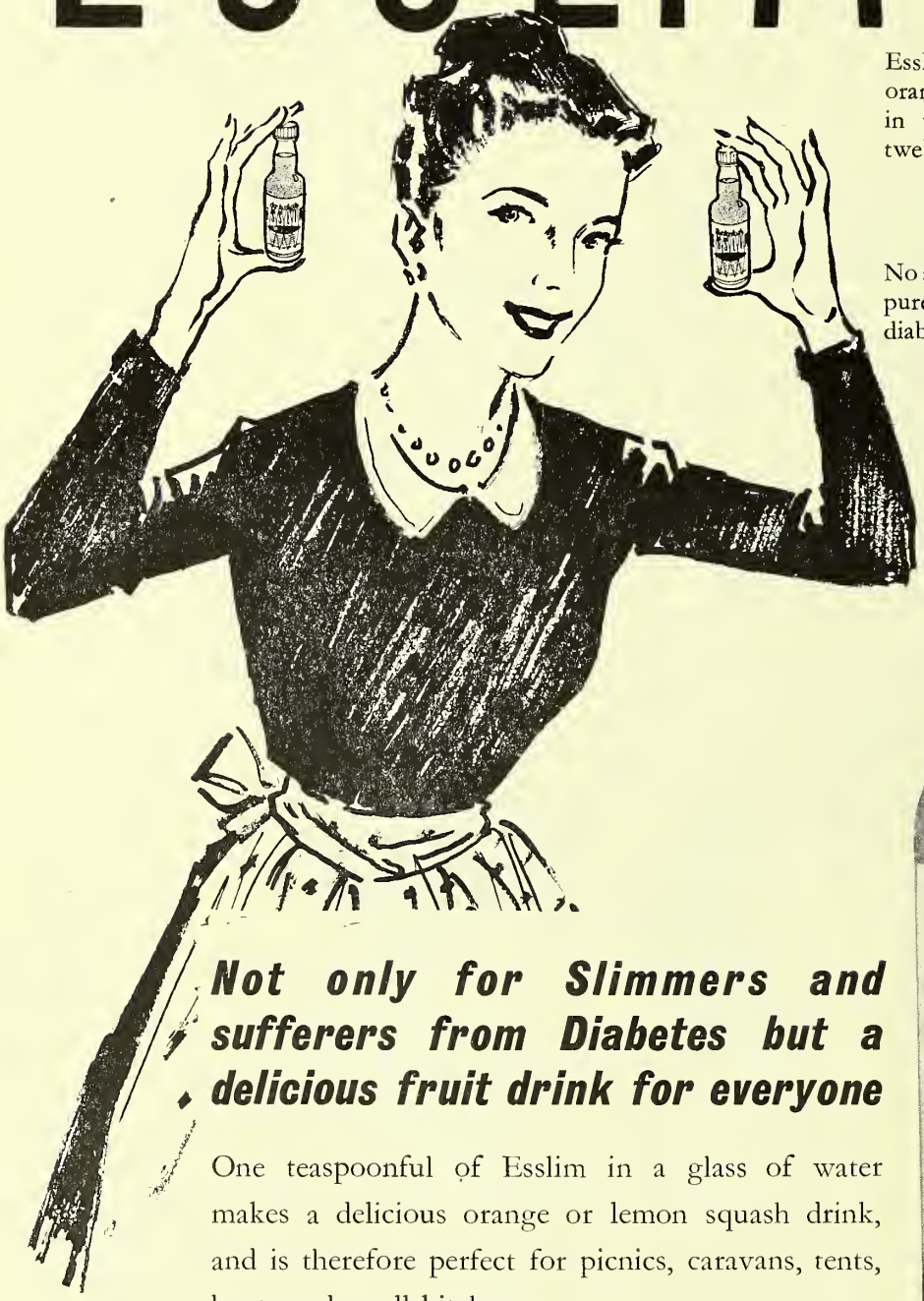

Not only for Slimmers and sufferers from Diabetes but a delicious fruit drink for everyone

One teaspoonful of Esslim in a glass of water makes a delicious orange or lemon squash drink, and is therefore perfect for picnics, caravans, tents, boats and small kitchens.

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GULliver 4421

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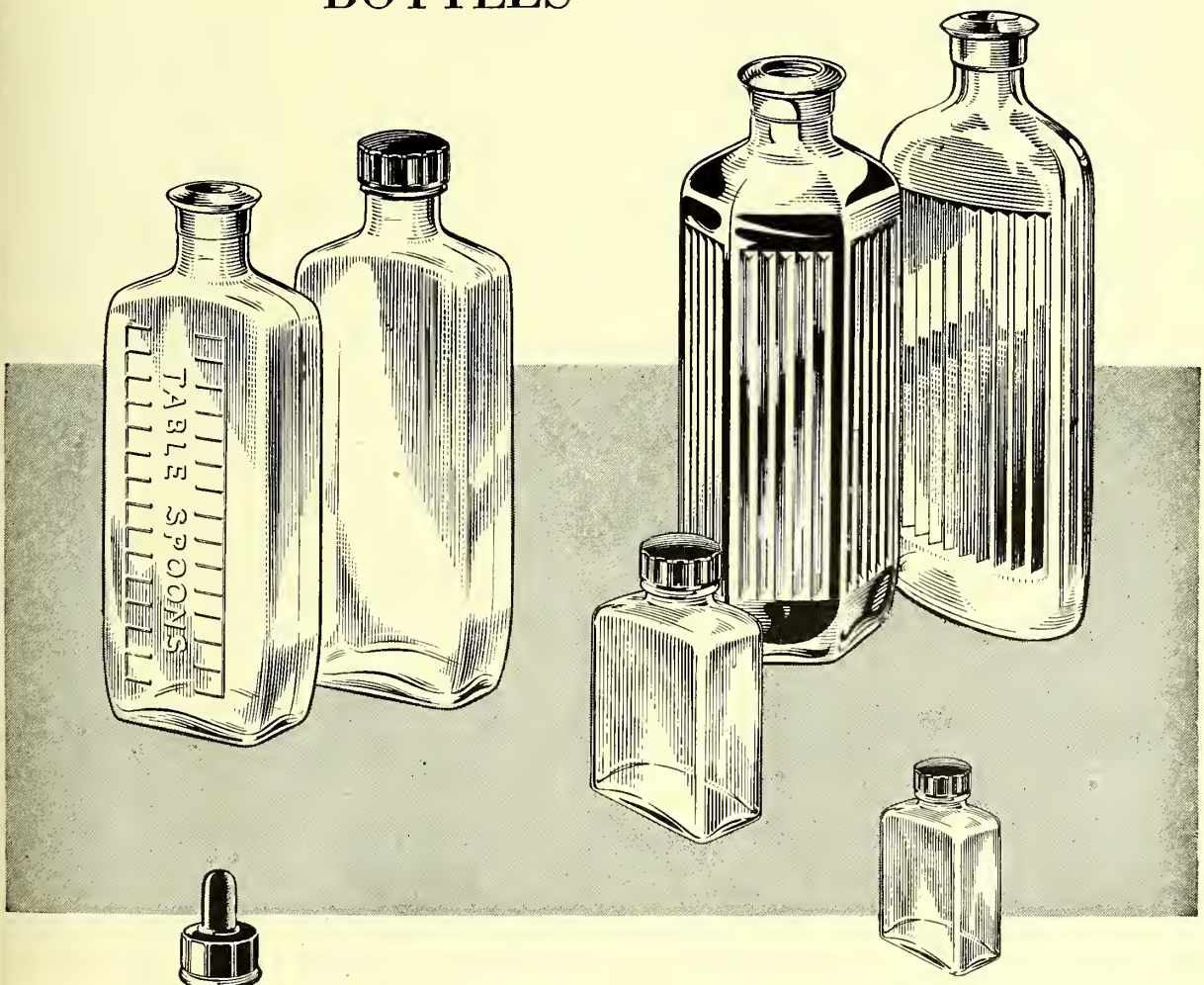

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* NEW low price
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1/3d a handy tube
1/9d a dip-in tin

Trade: Tubes 10/- per doz.
Tins 14/- per doz.
—less 2½% monthly settlement.

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STOCKPORT, CHESHIRE

A NEW ALL-PURPOSE PERSONAL WEIGHING MACHINE

For Babies—Children—Adults

No Loose Weights—Capacity 20 stone x 1 oz.

These machines are manufactured in our Works at Edmonton, London, N.18.

They have been specially designed for Chemists' shops where space is limited.

Strongly constructed of Cast Iron—white enamelled with tare bar to balance off the Baby Basket.

Will give extremely accurate weighing service and comply with local Weights and Measures Bye-laws.

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LARGE SIZE 10 ozs: **4/-** per bottle
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1 DOZEN PARCEL
13 to the dozen
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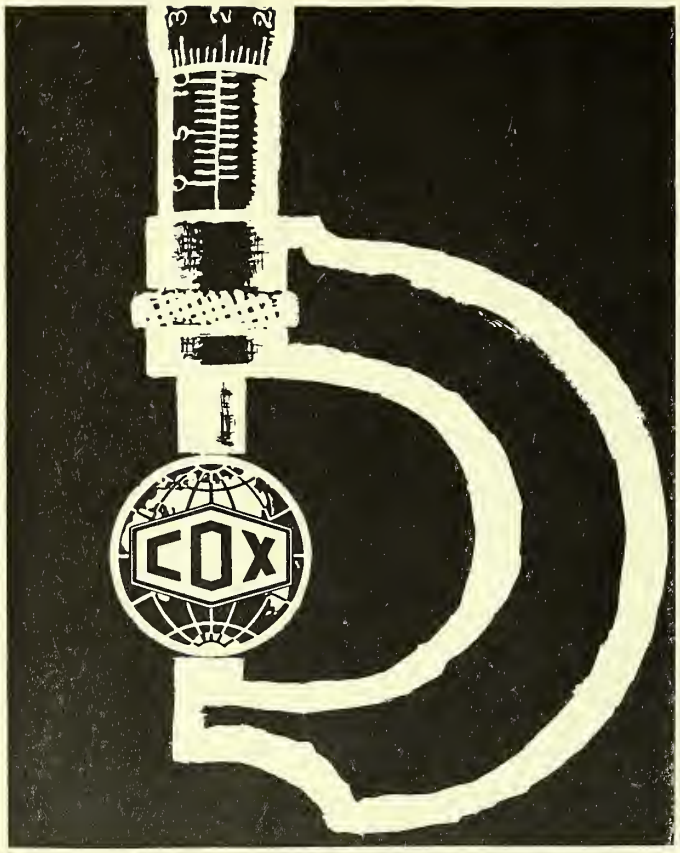

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LATEST NEWS!

DURING JULY AND AUGUST "AIDEX" IS BEING NATIONALLY ADVERTISED IN "NEWS OF THE WORLD" "THE PEOPLE" "WOMAN" "READER'S DIGEST" "EVERYWOMAN"

FROM CHEMISTS ONLY

Facsimile of advertisement appearing in Sunday Nationals.

SUNBURN

— BE PREPARED!

We recommend you to keep AIDEX on permanent display now during the period of our unpredictable heatwaves. Year after year at this time thousands of people suddenly and urgently want something to soothe and heal their sunburn, and they will go to the chemist where a suitable product (Aidex) has been prominently displayed. A colourful showcard supplied is ideal for the window, and display outers and crowners are available for counter use. You will be surprised also at the sales to people who like to "be prepared". Remember, too, that Aidex contains Benzocaine and therefore gives quick relief, an important feature to the sunburn sufferer. Furthermore, in making Aidex your sunburn speciality you have the advantage that it is readily saleable all the year round for numerous other First Aid purposes.

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TAS.AL. 664A

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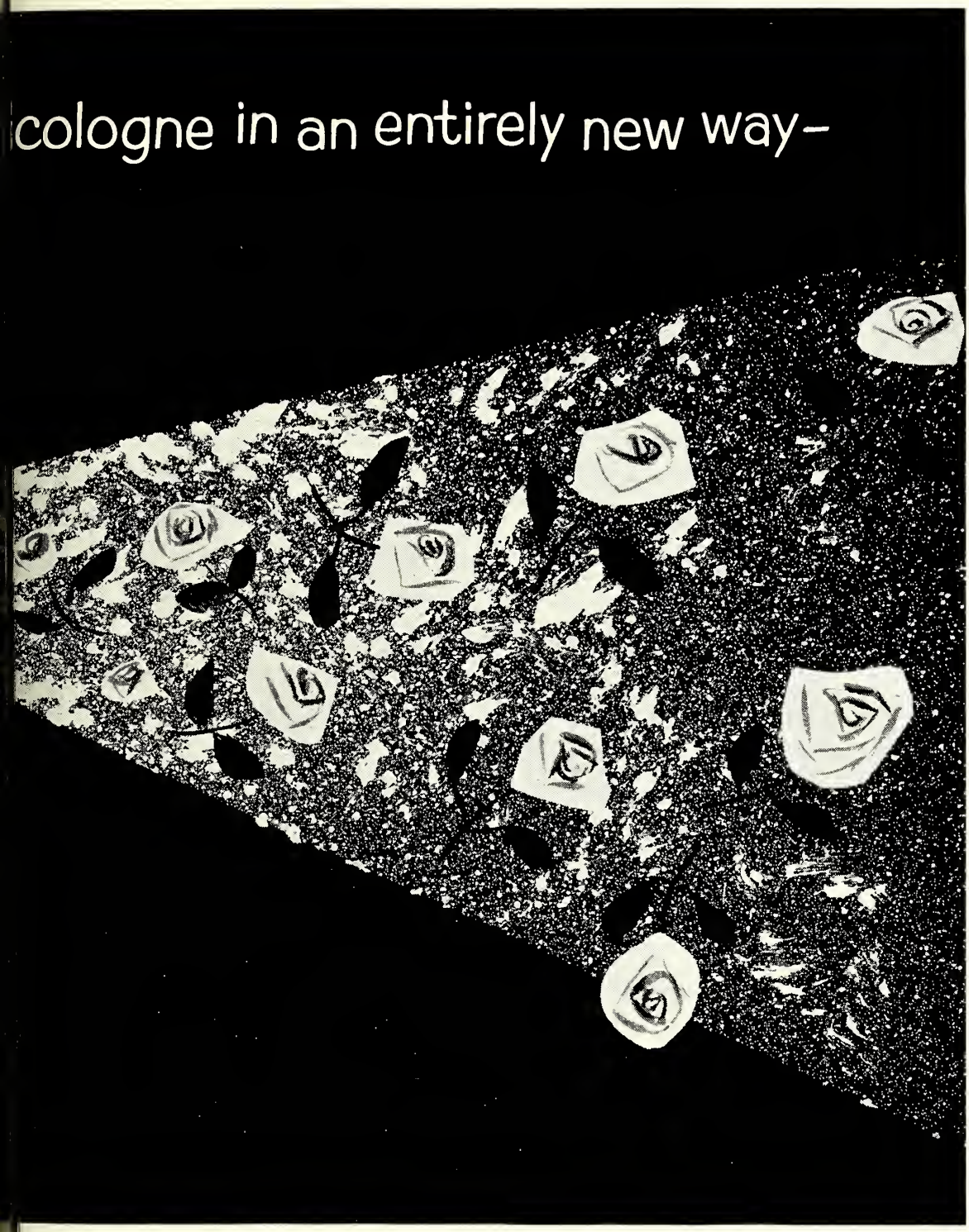
but there's more to it than that—as women will know at a glance

IN A SPRAY...

Goya Perfume Colognes will *go further . . . be easier to apply . . . cover the skin evenly . . . be leakproof, spillproof and safe from breakage.*



Colognes to match Goya perfumes Goya's Spray Colognes are created in the five classic Goya fragrances – Passport, Black Rose, Gardenia, Remember and No. 5 – for 9/6, and in his heavenly new perfume, Love Affair, for 10/6. The perfumes are also available in the fabulous new Jeweller's Spray.

Goya Perfume Colognes are irresistible! All you have to do is show them
A 3-dimensional counter display for both cologne and perfume sprays is available.

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WOODWARD'S

GRIPE WATER

In a brand new pack!

Here is the new blue and white pack that has been designed to give this profitable, regular selling line a more modern appearance. The change is not radical because, like you, we believe that too sudden a departure from the old Woodward pack, known to many thousands, would be inadvisable. Inside the pack, your customers will find two other minor changes. The familiar red strip over the bottle cap has disappeared, and the foil cap itself has been replaced by a smart screw-on cap in white plastic.

The demand for Woodward's grows steadily as more and more young mothers learn how essential it is in giving relief from wind and other tummy upsets in young babies. Especially during teething, Woodward's is invaluable.

The new retail price and trade terms recently announced make Woodward's an exceedingly profitable line that goes on repeating week after week.

RETAIL PRICE 2/3

W. WOODWARD LIMITED 51 CLAPHAM ROAD, LONDON SW9 *Member of the Sanitas Group*

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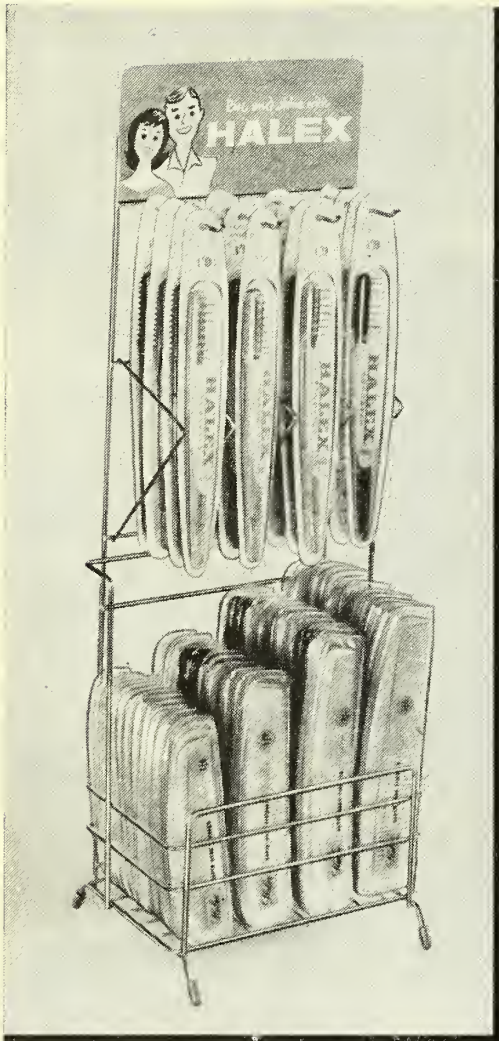

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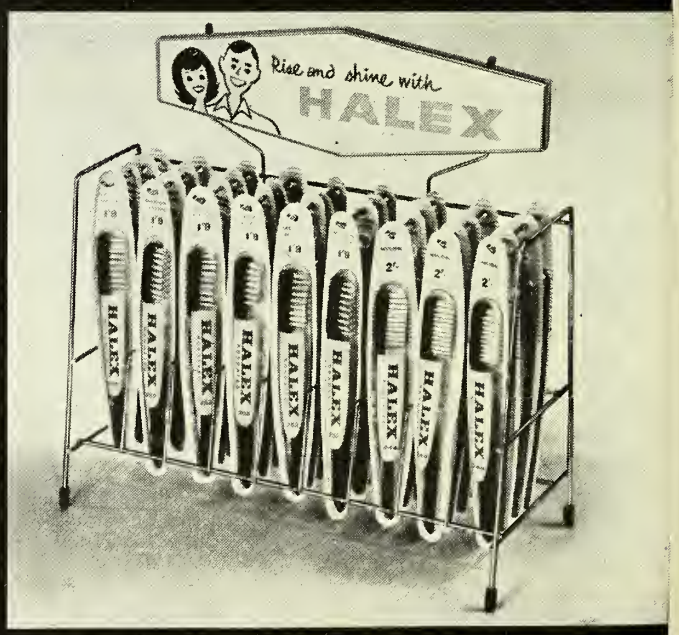
Halex toothbrushes and combs sell fast when you use the attractive new Halex dispensers. You'll find just the dispenser you want among the wide variety all designed to catch your customers' eye, and ready stocked with *your* choice of Halex toothbrushes and combs.

For the full list of FREE dispensers, contact your wholesaler or Halex, Highams Park, London, E.4.



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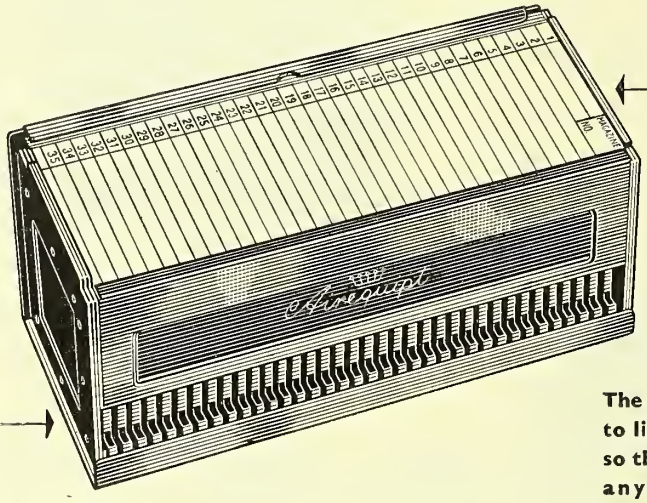
Airequipt is the secret of successful slide shows

It's simplicity itself! The changer slides into your projector. The magazine, shown here, takes 36 transparencies (in ready mounts) or between cover glasses, each in spring-loaded frames, completely protected from dust and finger-marks.



The index card enables you to list every slide by name, so that you can readily find any particular one for projection.

★ To project, you simply push in a handle: as you pull it out again, the slide is automatically returned to its correct place in the magazine, and repeating this action projects 36 slides in sequence.

Fits Aldisettes 2 and 3 and Super Aldisette. Adaptor for Aldis 303 and Aldis 505, 5/-. Adaptors for Aldisette, Aldis 300, Aldis 500, Aldis 1000, Aldis Super Six, Gnome, Hi-Lyte, Leitz 150, Leitz Prado 250, Leitz Prado 500, Leisegang, Orlux, Zeiss, 7/6 each.

Airequipt Automatic Slide Changer, complete with one magazine and 36 slide frames. Only £4/15/-

Extra magazine with 36 slide frames. Only 14/9

Airequipt

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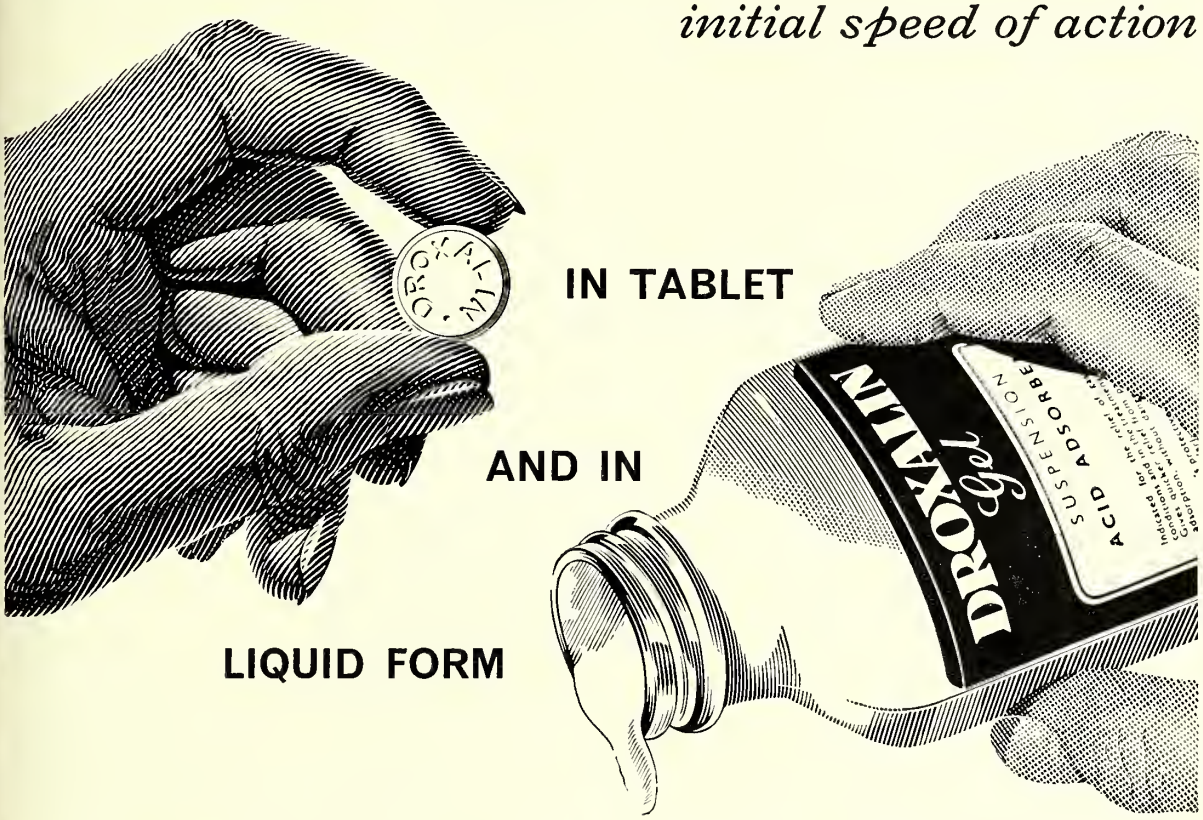
Palatability—plus remarkable initial speed of action



IN TABLET

AND IN

LIQUID FORM

As a consequence of the wide and successful prescribing of DROXALIN TABLETS in gastric ulcer, hyperacidity and sickness of pregnancy, a demand arose for a liquid version of the DROXALIN formula.

Introduced in 1958 as DROXALIN GEL this liquid formulation already has made a high reputation and is now widely prescribed.

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DROXALIN produces no acid rebound or other harmful side effects. The well known palatability of DROXALIN tablets is maintained in the Gel.

DROXALIN REGD.

ACID ADSORBENT

ACTIVE INGREDIENTS

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Magnesium Trisilicate, B.P.	2.5 grains

GEL

One teaspoonful (3.5 mls) contains 60 grains Aluminium Hydroxide Gel B.P. (equivalent to 5 grains Dried Aluminium Hydroxide Gel B.P.) and 5 grains Magnesium Trisilicate B.P.

DOSAGE

TABLETS In gastric ulcer: 2 to 4 tablets, chewed, every 2-4 hours.
In hyperacidity and Sickness of Pregnancy: 2 tablets as required.

GEL In gastric ulcer: one or two teaspoonfuls half an hour after meals. Repeat as necessary.
In hyperacidity and Sickness of Pregnancy: one or two teaspoonfuls as required.

PACKS AND PRICES

TABLETS In Hygienic film strips of 6, in cartons of 30 and dispensing packs of 504. Basic N.H.S. cost 2/2d for 50 tablets.

GEL 8 oz. and 80 oz. bottles. Basic N.H.S. cost 2/2d 8 oz. bottle.

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STARCH-REDUCED ROLLS

A NEW FLAVOUR FOR DIABETICS AND SLIMMERS

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12 x 30 roll packs 24/- per case
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for diabetic or medical purposes

	Gm./oz.
Protein (N X 5.7)	11.5
Carbohydrates	11.7
Fat	1.4
Salt	0.6

Calories 107 per oz.
Four Figgerrolls weigh approx. 1 oz.

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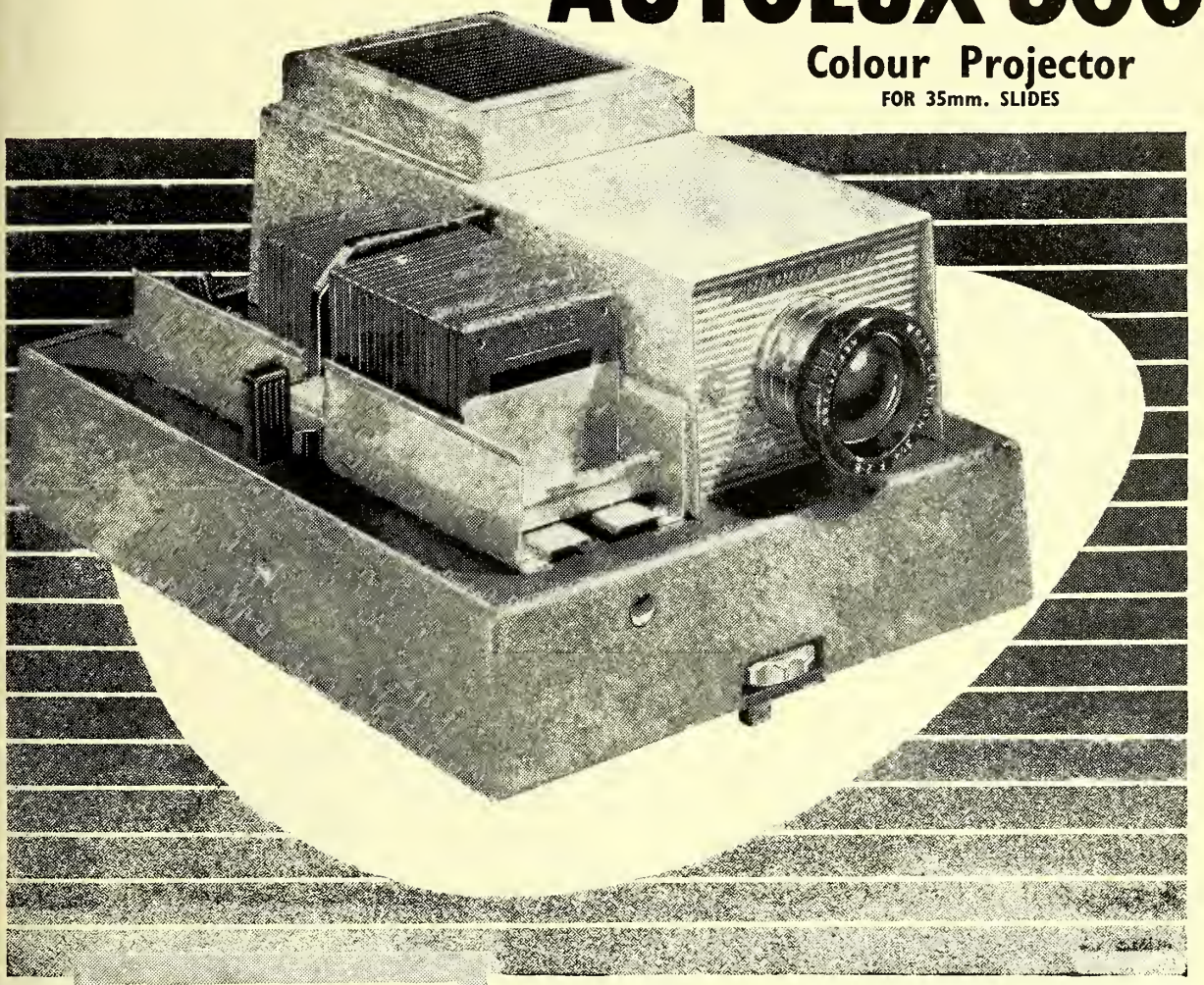
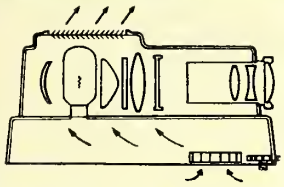
AUTOLUX 300

Colour Projector

FOR 35mm. SLIDES





Silent blower directs cool air past lamp, slide gate and optical components forward and away from operator.

This smart compact projector takes 20 mounted slides at a time—the simple one-stroke lever changing and re-stacking them automatically without the need for special magazines.

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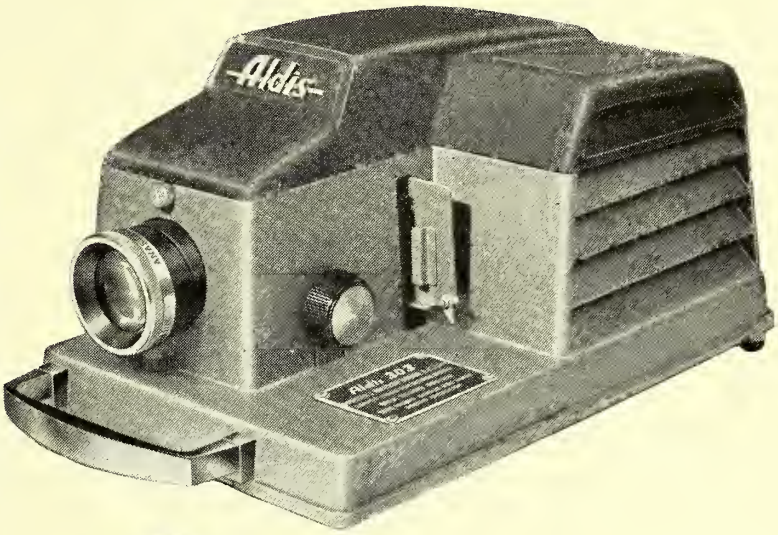

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Applications are invited from men preferably in the 30-40 age group for a Senior Executive Appointment with the National Pharmaceutical Union. The duties of the selected applicant will be concerned mainly with the co-ordination and development of N.P.U. activities on the commercial side of retail pharmacy. Applicants should have wide experience in retail pharmacy or in other branches of industry which has given them a full insight into, and appreciation of, retail distribution problems. Initiative, executive ability, knowledge of modern merchandising methods and of design and layout of shops and ability to collate and present information on these and allied subjects are among the qualities sought in the person to be appointed. The salary offered will be commensurate with the responsibilities involved. Applications, in strict confidence, to The Chairman, N.P.U. Executive Committee, 4/5 Queen Square, London, W.C.1. C 5784

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HIGHLANDS GENERAL HOSPITAL, WINCHMORE HILL, N.21

Pharmacist

required at the above hospital. Whitley Council salary. Applications stating age, qualifications and experience with copies of testimonials and names of two referees to Hospital Secretary. C 5782

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LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Locum Pharmacist

required. Salary £18 18s. per week. Applications to be sent to the Chief Pharmacist (Tel.: STEpney Green 4251). C 5722

LONDON HOSPITAL, WHITECHAPEL, E.1

Pharmacist

required—Salary £690—£920 according to previous experience and service. Applications to House Governor. C 522

LONDON JEWISH HOSPITAL, STEPNEY GREEN, E.1

Pharmacist

required. Whitley Council salary scale and conditions of service. Applications stating age, qualifications, experience and the names of two referees, to be sent to the Secretary, Stepney Group Hospital Management Committee, Mile End Hospital, Bancroft Road, E.1. C 5723

MILFORD CHEST HOSPITAL, GODALMING, SURREY

Locum Chief Pharmacist

required week commencing 3rd October, 1960. Accommodation available for single person. Salary £18 18s., less £3 18s. 11d. if resident. Apply to Physician Superintendent. C 5761

NEASDEN HOSPITAL, BRENTFIELD ROAD, N.W.10

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Applications are invited for the above post, basic grade. To commence duties as soon as possible. Applications to Hospital Secretary. C 540

ST. STEPHEN'S HOSPITAL, CHELSEA, S.W.10

Assistants-in-Dispensing (Two)

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Salary £770 a year rising by one annual increment of £30 to £800 a year by six annual increments to a maximum of £1,010 a year.
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THE CROOKES LABORATORIES LIMITED

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Forms of application and a schedule giving more details of the duties involved in these posts may be obtained from the Group Secretary, The Red House, Crumpsall Hospital (Delaunays Road Entrance), Manchester, 8, and should be returned to him on or before 15th September, 1960. C 5685

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ST. CLEMENT'S HOSPITAL, BOW ROAD, LONDON, E.3

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ST. OLAVE'S HOSPITAL, LOWER ROAD, ROTHERHITHE, S.E.16

Senior Pharmacist

Applications are invited for appointment at the above hospital. Salary up to £895 per annum including London Weighting. Applications stating age, qualifications and experience and giving the names of two referees to the Hospital Secretary. C 549

STEPNEY GROUP HOSPITAL MANAGEMENT COMMITTEE, MILE END HOSPITAL, BANCROFT ROAD, LONDON, E.1

Post-graduate Student Pharmacist

required at the above hospital. Post vacant end of September 1960. Salary scale and conditions of service in accordance with Whitley Council. Applications, with names of two referees, to be sent to the Chief Pharmacist. C 5734

SUNDERLAND AREA HOSPITAL MANAGEMENT COMMITTEE

Locum Pharmacist

required from September 1 to September 15. Salary £18 18s. per week.
Apply immediately, stating age, qualifications and experience, and enclosing copies of two references to the Group Secretary, Sunderland Area Hospital Management Committee, General Hospital, Chester Road, Sunderland. C 5788

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Secretary,
P.O. Box 946,
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W. A. Williamson,
Otago Hospital Board,
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C 5785

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C. B. LINFOOT,
Secretary.

Knowsley House,
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Wigan, Lancs. C 5776

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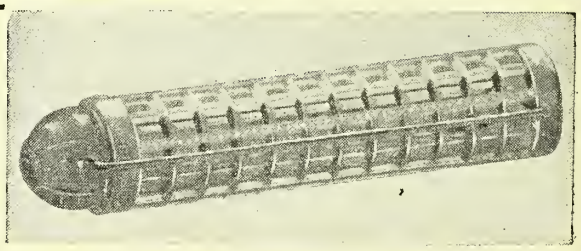

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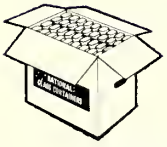

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